Exhibit 1

Supplemental Declaration of Raymond S. Hartman in Support of the Certification of the Class of Direct Purchasers of Nexium

Summary

I have recently received updated transactional chargeback data relating to Nexium. ¹ I have incorporated these additional chargeback data into my calculation of the Nexium net price, and my overcharge calculations have been revised accordingly. My methodology and conclusions as presented in my initial declaration ² have not changed due to the incorporation of the new chargeback data. On the basis of the factual assumptions that I was asked to make by counsel in my initial declaration (*i.e.*, assumptions about what the evidence will show regarding when generic entry would have occurred if the defendants had not violated the law), and using the exact same formulaic approaches and common evidence that I used in my initial declaration, I calculate the overcharge damages to the Class to be \$24.6 billion under Scenario 1 and \$7.8 billion under Scenario 2. Updated versions of Attachments C, D and E are attached to this declaration.

Raymond S. Hartman, Ph.D.

August 15, 2013

¹ AZ-NX-MDL-00968560.txt, received August 12, 2013.

² Declaration of Raymond S. Hartman in Support of the Certification of the Class of Direct Purchasers of Nexium, *In re: Nexium (esomeprazole) Antitrust Litigation*; MDL No. 2409, Civil Action No. 12-md-02409-WGY, US District Court for the District of Massachusetts, July 26, 2013.

Attachment C

Attachment C.1: Summary of Nexium Direct Customer Sales

	_	7	,
			Average Sales
Quarter	Quantity (Pills)	Net Sales	Price (\$/Pill)
2008 Pre 4-14	343,730,424	\$1,453,248,377	\$4.23
2008Q2 Post 4-14	330,955,879	\$1,410,444,615	\$4.26
2008Q3	353,676,170	\$1,513,720,101	\$4.28
2008Q4	393,177,650	\$1,729,597,621	\$4.40
2009Q1	344,590,681	\$1,549,462,904	\$4.50
2009Q2	370,370,888	\$1,670,966,347	\$4.51
2009Q3	358,376,852	\$1,616,747,386	\$4.51
2009Q4	358,556,485	\$1,659,417,762	\$4.63
2010Q1	337,613,503	\$1,606,829,125	\$4.76
2010Q2	342,909,973	\$1,645,068,869	\$4.80
2010Q3	336,185,463	\$1,578,344,774	\$4.69
2010Q4	340,358,296	\$1,643,480,690	\$4.83
2011Q1	303,971,918	\$1,526,485,048	\$5.02
2011Q2	319,678,317	\$1,611,187,175	\$5.04
2011Q3	312,062,380	\$1,520,652,211	\$4.87
2011Q4	321,987,932	\$1,641,033,084	\$5.10
2012Q1	264,078,806	\$1,359,897,049	\$5.15
2012Q2	283,790,829	\$1,482,450,406	\$5.22
2012Q3	286,007,757	\$1,495,738,212	\$5.23
2012Q4	296,550,930	\$1,616,111,381	\$5.45
2013Q1	248,813,414	\$1,376,691,190	\$5.53
2013Q2	284,597,553	\$1,634,614,615	\$5.74
2013Q3	262,674,071	\$1,518,078,347	\$5.78
2013Q4	257,215,820	\$1,514,653,791	\$5.89
2014Q1	167,838,379	\$1,006,690,517	\$6.00

7,819,770,368 \$38,381,611,596 Total

Notes:

and AZ-NX-MDL-00968560.txt (chargebacks).

Source: AstraZeneca transactional sales data including AZ-NX-MDL-00968558.txt (customer detail), AZ-NX-MDL-00968559.txt (direct sales),

The period "2008 Pre 4-14" refers to January 14, 2008 through April 13, 2008. Oral suspension NDCs have been excluded. The IV form was not included in the raw transactional data.

Records with zero price and non-zero quantity have been excluded.

Outlier records with an invoice date of May 19, 2008, negative quantity and an SAP order reason code of "Z29" have been excluded.

Excludes customers with zero or negative total net sales. Excludes "US AF-USAF ACADEMY, CO"

2013Q3 through 2014Q1 are estimated by taking the linear trend from the previous 8 quarters of available data. 2014Q1 is multiplied by 2/3 to reflect a total only through February 2014. Since the data in 2013Q2 only extend through May, that quarter is adjusted by multiplying by 3/2.

Through 2013Q2, see notes above. From 2013Q3-2014Q1, = Column 1 * Column 3. Through 2013Q2, = Column 2 / Column 1. From 2012Q3-2014Q1, based on the linear trend from the previous 8 quarters of available data.

0 0

Attachment C.2.a: Yardstick Calculations for Scenario 1

14			Price Number of	Generics		2	2	က	က	က	က	က	က	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
13	sticks	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	8.09	54.5%	58.1%	61.7%	65.3%	68.9%	72.5%
12	Final Yardsticks	Generic	Price	Change		-40.8%	-42.3%	-63.4%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%
11		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96	%6:96	%6:96	%6:96	%6:96	%6:96	%6:96	%6:96	%6:96	%6.96	%6:96	%6.96
10			Price Number of	Generics		က	က	က	က	4	4	4	4	4	4	4	2	2											
6	Inputs	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
8	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
7		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96											
9			Price	(\$/EU)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											
5	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
4	La		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
3			Price	(\$/EU)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											
2	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
_			Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
				aarter																									

Notes:		
1-2	Source: IMS NSP data.	Excludes oral suspension and IV forms.
က	= Column 2 / Column 1.	

111 111 113 114 117 118 119 22 23 24

Source: IMS NSP data. Excludes oral suspension and IV forms.

⁼ Column 5 / Column 4.

⁼ Column 4 / (Column 1 + Column 4).

^{= (}Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 .

Number of significant generic manufacturers.

Periods 1-13, = Column 7. Period 14 onward, = Column 7 in Period 13.

Periods 1 and 2, = Column 8 * (2/3); Periods 3-4, = Column 8; Periods 5-8, = Column 8; Period 4; Period 9-16, = Column 8 starting in Period 17 onward, = Column 8 in Period 11.

Period 1-13, = Column 9. Thereafter, based on the linear trend from the previous 8 quarters of available data. Number of generics in the but-for scenario.

Attachment C.2.b: Yardstick Calculations for Scenario 2

1			کر	Ś		7	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14			Price Number of	Generics																									
13	Isticks	Brand	Price	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	20.8%	54.5%	58.1%	61.7%	65.3%	68.9%	72.5%
12	Final Yardsticks	Generic	Price	Change		-40.8%	-45.3%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%
11		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2.96	97.3%	97.1%	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96
10			imber of	Generics		က	က	က	က	4	4	4	4	4	4	4	2	2											
6	nputs	Brand	Price Number of	Change (-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
8	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
7		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	%9.66	94.6%	95.4%	%9.96	%2.96	97.3%	97.1%	%6.96											
9			Price	(\$/EU)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											
5	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
4	Lai		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
3			Price	(\$/EU)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											
2	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
1			Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
!				Quarter	0	_	2	3	4	2	9	7	8	6	10	1	12	13	14	15	16	17	18	19	20	21	22	23	24

Source: IMS NSP data. Excludes oral suspension and IV forms. = Column 2 / Column 1. 1-2 3 3 4-5 6 6 6 7 7 7 10 110 113 113 113

Source: IMS NSP data. Excludes oral suspension and IV forms.

= Column 5 / Column 4.

= Column 4 / (Column 1 + Column 4).

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 .

Number of significan generic manufacturers.

Periods 1 - 13, = Column 7; Period 14 onward, = Column 7 in Period 13.

Periods 1 and 2, = Column 8 * (2/3); Periods 3-9, = Column 8 starting in Period 5; Period 10 onward, = Column 8 in Period 11.

Periods 1-13, = Column 9; Period 14 onward, based on the trend from the previous 8 quarters of available data. Number of generics in the but-for scenario.

Attachment C.3: Nexium Direct Purchaser Overcharges Assuming Generic Launch on April 14, 2008

	_	7	က	4	2	9	7	œ	0	10	1	12	13
	Actua	Actual Nexium Purchases	ses		Yardsticks		В	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	_	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2008 Pre 4-14		\$1,453,248,377	\$4.23	ò	ò	ò	0.00	0	0 0 0		0000	0.00	000
2008Q2 Post 4-14		\$1,410,444,615 64,543,730,404	\$4.26	64.6%	-40.8%	-2.0%	213,899,123	\$2.50	117,056,756	\$4.14	\$376,000,601	\$13,943,863	\$389,944,465
200003		\$1,515,720,101 \$4,300,503,004	04.40	00.0%	-42.5%	6.4%	303,003,003	44.74	44,040,050	90.30	\$300,902,332 \$60,000,000	410,091,000	407,000,004,007
2008Q4	_	\$1,729,597,621	\$4.40	88.7%	-63.4%	-1.6%	348,865,292	\$1.55	44,312,358	\$4.16	\$994,249,130	\$10,540,527	\$1,004,789,657
2009Q1		\$1,549,462,904	\$4.50	90.4%	-64.0%	2.4%	311,604,352	\$1.52	32,986,328	\$4.33	\$927,236,098	\$5,474,335	\$932,710,433
2009Q2		\$1,670,966,347	\$4.51	92.4%	-64.0%	-0.2%	342,153,534	\$1.52	28,217,353	\$4.22	\$1,023,297,469	\$8,282,425	\$1,031,579,894
2009Q3		\$1,616,747,386	\$4.51	93.6%	-64.0%	3.1%	335,450,888	\$1.52	22,925,964	\$4.36	\$1,003,151,681	\$3,522,029	\$1,006,673,711
2009Q4		\$1,659,417,762	\$4.63	94.6%	-64.0%	14.7%	339,113,617	\$1.52	19,442,868	\$4.85	\$1,053,695,037	\$0	\$1,053,695,037
2010Q1	337,613,503	\$1,606,829,125	\$4.76	95.4%	-64.0%	16.1%	322,054,052	\$1.52	15,559,452	\$4.91	\$1,042,980,729	\$0	\$1,042,980,729
2010Q2	342,909,973	\$1,645,068,869	\$4.80	%9.96	-64.6%	19.3%	331,334,344	\$1.49	11,575,629	\$5.05	\$1,094,309,728	\$0	\$1,094,309,728
2010Q3	336,185,463	\$1,578,344,774	\$4.69	%2'96	-66.2%	18.8%	324,976,249	\$1.43	11,209,214	\$5.02	\$1,061,370,339	\$0	\$1,061,370,339
2010Q4		\$1,643,480,690	\$4.83	97.3%	-68.5%	28.8%	331,201,987	\$1.33	9,156,309	\$5.45	\$1,158,324,568	\$0	\$1,158,324,568
2011Q1		\$1,526,485,048	\$5.02	97.1%	-71.5%	29.8%	295,237,742	\$1.20	8,734,176	\$5.49	\$1,127,055,663	\$0	\$1,127,055,663
2011Q2		\$1,611,187,175	\$5.04	%6.96	-71.9%	30.3%	309,794,924	\$1.19	9,883,393	\$5.51	\$1,193,049,965	\$0	\$1,193,049,965
2011Q3		\$1,520,652,211	\$4.87	%6.96	-71.4%	36.4%	302,414,447	\$1.21	9,647,934	\$5.77	\$1,108,579,582	\$0	\$1,108,579,582
2011Q4	321,987,932	\$1,641,033,084	\$5.10	%6.96	-75.9%	40.0%	312,033,133	\$1.02	9,954,799	\$5.92	\$1,272,643,110	\$0	\$1,272,643,110
2012Q1	264,078,806	\$1,359,897,049	\$5.15	%6.96	-75.9%	43.6%	255,914,365	\$1.02	8,164,441	\$6.07	\$1,057,328,664	\$0	\$1,057,328,664
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%6.96	-75.9%	47.2%	275,016,957	\$1.02	8,773,871	\$6.22	\$1,156,646,336	\$0	\$1,156,646,336
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-75.9%	20.8%	277,165,345	\$1.02	8,842,411	\$6.38	\$1,167,336,234	\$0	\$1,167,336,234
2012Q4		\$1,616,111,381	\$5.45	%6.96	-75.9%	54.5%	287,382,559	\$1.02	9,168,371	\$6.53	\$1,273,586,579	\$0	\$1,273,586,579
2013Q1		\$1,376,691,190	\$5.53	%6.96	-75.9%	58.1%	241,120,928	\$1.02	7,692,486	\$6.68	\$1,088,663,539	\$0	\$1,088,663,539
2013Q2		\$1,634,614,615	\$5.74	%6.96	-75.9%	61.7%	275,798,740	\$1.02	8,798,812	\$6.84	\$1,303,310,265	\$0	\$1,303,310,265
2013Q3		\$1,518,078,347	\$5.78	%6.96	-75.9%	65.3%	254,553,059	\$1.02	8,121,011	\$6.99	\$1,212,005,352	\$0	\$1,212,005,352
2013Q4 2014Q1	257,215,820 3 167,838,379 3	\$1,514,653,791 \$1.006,690,517	\$5.89	%6.96 96.9%	-75.9% -75.9%	68.9%	249,263,559 162,649,373	\$1.02 \$1.02	7,952,260 5.189,006	\$7.14 \$7.29	\$1,214,071,467 \$809,987,346	O\$ 6	\$1,214,071,467 \$809,987,346
			-										
Total											\$25,279,841,835	\$57,355,065	\$25,337,196,900
										Adjustn	Adjustment Due to Statute of Limitations:	of Limitations:	\$747,157,416
											Total Damages to the Class:	to the Class:	\$24,590,039,484
Notes:													
_	= C.1 Column 1.												
0.0	= C.1 Column 2.												
		. *											
4 1	= C.2.a Column 11.												
ဂ (= C.2.a Column 12.	12.											

= Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12. Due to the statute of limitations, damages from 4/14/2008 through 8/26/2008 are deducted. Privileged and Confidential: Subject to Court Order

= Column 1 * Column 4. = Column 3 in 2008 Pre 4-14 * (1 + Column 5).

= C.2.a Column 13.

= Column 3 in 2008 Pre 4-14 * (1 + Column 6).

= Column 1 * (1 - Column 4).

Attachment C.4: Nexium Direct Purchaser Overcharges Assuming Generic Launch in January 2012

	1	2	3	4	5	9	7	8	6	10	11	12	13
•	Actua	Actual Nexium Purchases	ses		Yardsticks		В	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2011Q4	321,987,932	\$1,641,033,084	\$5.10										
2012Q1	264,078,806	\$1,359,897,049	\$5.15	64.6%	-40.8%	-2.0%	170,675,998	\$3.02	93,402,807	\$4.99	\$363,749,523	\$14,552,409	\$378,301,932
2012Q2	283,790,829	\$1,482,450,406	\$5.22	86.3%	-42.3%	-6.4%	244,785,146	\$2.94	39,005,683	\$4.77	\$558,363,521	\$17,592,982	\$575,956,504
2012Q3	286,007,757	\$1,495,738,212	\$5.23	88.7%	-64.6%	-1.6%	253,773,783	\$1.80	32,233,974	\$5.02	\$869,928,232	\$6,884,256	\$876,812,488
2012Q4	296,550,930	\$1,616,111,381	\$5.45	90.4%	-66.2%	2.4%	268,163,261	\$1.72	28,387,669	\$5.22	\$999,507,522	\$6,509,916	\$1,006,017,438
2013Q1	248,813,414	\$1,376,691,190	\$5.53	92.4%	-68.5%	-0.2%	229,857,129	\$1.60	18,956,285	\$5.08	\$902,909,848	\$8,497,407	\$911,407,254
2013Q2	284,597,553	\$1,634,614,615	\$5.74	93.6%	-71.5%	3.1%	266,391,374	\$1.45	18,206,179	\$5.25	\$1,143,298,575	\$8,931,142	\$1,152,229,717
2013Q3	262,674,071	\$1,518,078,347	\$5.78	94.6%	-71.9%	14.7%	248,430,464	\$1.43	14,243,606	\$5.85	\$1,079,704,850	\$0	\$1,079,704,850
2013Q4	257,215,820	\$1,514,653,791	\$5.89	95.4%	-71.4%	16.1%	245,361,622	\$1.46	11,854,197	\$5.92	\$1,087,803,415	\$0	\$1,087,803,415
2014Q1		\$1,006,690,517	\$6.00	%9.96	-75.9%	19.3%	162,172,651	\$1.23	5,665,728	\$6.08	\$773,691,603	\$0	\$773,691,603
Total											\$7,778,957,090	\$62,968,111	\$7,841,925,201
Notes:													
_	= C.1 Column 1.												
2	= C.1 Column 2.												
က	= C.1 Column 3.												
4	= C.2.b Column 11.	11.											
2	= C.2.b Column 12.	12.											
9	= C.2.b Column 13.	13.											
7	= Column 1 * Column 4.	olumn 4.											
80	= Column 3 in 2	= Column 3 in 2011Q4 * (1 + Column 5).	umn 5).										
6	= Column 1 * (1 - Column 4)	- Column 4).											
10	= Column 3 in 2	Column 3 in 2011Q4 * (1 + Column 6).	umn 6).										
1	= Column 7 * (C	= Column 7 * (Column 3 - Column 8)	n 8).										
12	= Column 9 * (C	= Column 9 * (Column 3 - Column 10). If the but-for	n 10). If the bu		is greater t	han the ac	price is greater than the actual price, set to zero.) zero.					
13	= Column 11 + Column 12.	Column 12.											

Attachment D

Attachment D.1: Direct Customer List Under Scenario 1

Num.	Customer Name
1	AMERISOURCEBERGEN CORP
	AMERICAN HEALTH PACKAGING
	AMERISOURCEBERGEN CORP
	BELLCO DRUG CORP
	J M BLANCO
2	BURLINGTON DRUG CO INC
3	CAPITAL WHOLESALE DRUG CO
4	CARDINAL HEALTH INC
	CARDINAL HEALTH INC
	KINRAY INC
	DIK DRUG CO INC
5	CESAR CASTILLO INC
6	DAKOTA DRUG INC
7	DISCOUNT DRUG MART
8	DMS PHARMACEUTICAL GROUP INC
9	DROGUERIA BETANCES INC
10	DROGUERIA CTRL INC/CTRO
11	DROGUERIA DE LA VILLA INC
12	EXPRESS SCRIPTS
	MEDCO HEALTH SOLUTIONS
	PRIORITY HEALTHCARE CORP
13	FRANK W KERR CO
14	GOOD SAMARITAN HOSP & HLTH
15	H D SMITH WHLSLE DRUG CO INC
16	HARVARD DRUG GROUP LLC
17	J M SMITH CORP
18	KING DRUG CO OF FLORENCE
19	MCKESSON CORP
	MC QUEARY BROTHERS DRUG CO INC
	MCKESSON CORP
20	MIAMI LUKEN INC
21	MORRIS & DICKSON CO LTD INC
22	NORTH CAROLINA MUTUAL WHSLE
23	PHARMACY BUYING ASSOCIATES
24	PRESCRIPTION SUPPLY INC
25	R & S NORTHEAST
26	REBEL DISTRIBUTORS CORP
27	ROCHESTER DRUG COOPERATIVE INC
28	SMITH DRUG COMPANY
29	VALLEY WHLSLE DRUG CO INC
30	VALUE DRUG CO INC WHOLESALERS GROUP INC
31	WHOLESALERS GROUP INC

Note: Parent companies are listed and numbered above, while subsidiary companies are indented.

Attachment D.2: Direct Customer List Under Scenario 2

Num.	Customer Name
1	AMERISOURCEBERGEN CORP
	AMERISOURCEBERGEN CORP
	BELLCO DRUG CORP
	J M BLANCO
2	BURLINGTON DRUG CO INC
3	CAPITAL WHOLESALE DRUG CO
4	CARDINAL HEALTH INC
	CARDINAL HEALTH INC
	DIK DRUG CO INC
5	CESAR CASTILLO INC
6	DAKOTA DRUG INC
7	DISCOUNT DRUG MART
8	DROGUERIA BETANCES INC
9	DROGUERIA CTRL INC/CTRO
10	EXPRESS SCRIPTS
	MEDCO HEALTH SOLUTIONS
11	FRANK W KERR CO
12	H D SMITH WHLSLE DRUG CO INC
13	HARVARD DRUG GROUP LLC
14	J M SMITH CORP
15	MCKESSON CORP
16	MIAMI LUKEN INC
17	MORRIS & DICKSON CO LTD INC
18	NORTH CAROLINA MUTUAL WHSLE
19	PHARMACY BUYING ASSOCIATES
20	PRESCRIPTION SUPPLY INC
21	R & S NORTHEAST
22	ROCHESTER DRUG COOPERATIVE INC
23	SMITH DRUG COMPANY
24	VALLEY WHLSLE DRUG CO INC
25	VALUE DRUG CO INC
26	WHOLESALERS GROUP INC

Note: Parent companies are listed and numbered above, while subsidiary companies are indented.

Attachment E

Privileged and Confidential: Subject to Court Order

Attachment E.1: Nexium Direct Purchaser Overcharges Assuming Generic Launch on October 1, 2008

	-	c	ď	_	ĸ	<u>ر</u> () 	α	a	5	7	5	6
	Actio	Actual Nevium Purchases			Vardeficke			Rut-For Purchases	chases	2	=	Overcharges	2
			Average	Generic	Generic	Brand		Generic		Brand		5	
	Quantity		Sales Price	Market	Price		Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change		(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2008Q3		\$1,513,720,101	\$4.28										
2008Q4	393,177,650	\$1,729,597,621	\$4.40	64.6%	-40.8%	-2.0%	254,113,494	\$2.53	139,064,156	\$4.19	\$473,740,109	\$28,560,428	\$502,300,538
2009Q1		\$1,549,462,904	\$4.50	86.3%	-42.3%	-6.4%	297,228,351	\$2.47	47,362,330	\$4.01	\$601,983,761	\$23,138,400	\$625,122,161
2009Q2	370,370,888	\$1,670,966,347	\$4.51	88.7%	-63.4%	-1.6%	328,628,924	\$1.57	41,741,964	\$4.21	\$967,301,527	\$12,488,449	\$979,789,976
2009Q3		\$1,616,747,386	\$4.51	90.4%	-64.0%	2.4%	324,070,827	\$1.54	34,306,025	\$4.38	\$963,047,923	\$4,369,824	\$967,417,747
2009Q4		\$1,659,417,762	\$4.63	92.4%	-64.0%	-0.2%	331,239,233	\$1.54	27,317,252	\$4.27	\$1,023,021,241	\$9,779,662	\$1,032,800,903
201001		\$1,606,829,125	\$4.76	93.6%	-64.0%	3.1%	316,015,806	\$1.54	21,597,698	84.41	\$1.017,504,469	\$7,516,172	\$1,025,020,641
201002		\$1,645,068,869	\$4.80	94.6%	-64.0%	14.7%	324,315,543	\$1.54	18,594,430	\$4.91	\$1,056,553,081	\$0	\$1,056,553,081
2010Q3		\$1,578,344,774	\$4.69	95.4%	-64.0%	16.1%	320,691,825	\$1.54	15,493,638	\$4.97	\$1,011,872,010	\$0	\$1,011,872,010
2010Q4		\$1,643,480,690	\$4.83	%9.96	-64.6%	19.3%	328,868,804	\$1.51	11,489,492	\$5.11	\$1,090,404,372	\$0	\$1,090,404,372
2011Q1		\$1,526,485,048	\$5.02	%2'96	-66.2%	18.8%	293,836,779	\$1.45	10,135,139	\$5.09	\$1,050,561,289	\$0	\$1,050,561,289
2011Q2	319,678,317	\$1,611,187,175	\$5.04	97.3%	-68.5%	28.8%	311,078,340	\$1.35	8,599,977	\$5.51	\$1,148,588,840	\$0	\$1,148,588,840
2011Q3		\$1,520,652,211	\$4.87	97.1%	-71.5%	29.8%	303,095,737	\$1.22	8,966,644	\$5.56	\$1,107,429,418	\$0	\$1,107,429,418
2011Q4	321,987,932	\$1,641,033,084	\$5.10	%6.96	-71.9%	30.3%	312,033,133	\$1.20	9,954,799	\$5.58	\$1,214,741,441	\$0	\$1,214,741,441
2012Q1		\$1,359,897,049	\$5.15	%6.96	-71.4%	36.4%	255,914,365	\$1.22	8,164,441	\$5.84	\$1,005,120,894	\$0	\$1,005,120,894
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%6.96	-75.9%	40.0%	275,016,957	\$1.03	8,773,871	\$5.99	\$1,153,197,028	\$0	\$1,153,197,028
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-75.9%	43.6%	277,165,345	\$1.03	8,842,411	\$6.15	\$1,163,859,980	\$0	\$1,163,859,980
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6.96	-75.9%	47.2%	287,382,559	\$1.03	9,168,371	\$6.30	\$1,269,982,179	\$0	\$1,269,982,179
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-75.9%	%8'09	241,120,928	\$1.03	7,692,486	\$6.46	\$1,085,639,360	\$0	\$1,085,639,360
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-75.9%	54.5%	275,798,740	\$1.03	8,798,812	\$6.61	\$1,299,851,151	\$0	\$1,299,851,151
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-75.9%	58.1%	254,553,059	\$1.03	8,121,011	\$6.77	\$1,208,812,705	\$0	\$1,208,812,705
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-75.9%	61.7%	249,263,559	\$1.03	7,952,260	\$6.92	\$1,210,945,162	\$0	\$1,210,945,162
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	65.3%	162,649,373	\$1.03	5,189,006	\$7.08	\$807,947,370	\$0	\$807,947,370
Total											\$22.932.105.312	\$85,852,935	\$23,017,958,246
Notes:													
_	= C.1 Column 1.												
2	= C.1 Column 2.	~ :											
က	= C.1 Column 3.	~:											
4	= C.2.a Column 11.	າ 11.											
2	= C.2.a Column 12.	12.											
9	= C.2.a Column 13.	າ 13.											
7	= Column 1 * Column 4.	olumn 4.											
80	= Column 3 in 2	Column 3 in 2008Q3 * (1 + Column 5).	lumn 5).										
6	= Column 1 * (1 - Column 4).	- Column 4).											
10	= Column 3 in 2	Column 3 in 2008Q3 * (1 + Column 6).	lumn 6).										
7	= Column 7 * (C	= Column 7 * (Column 3 - Column 8).	ın 8).										
12	= Column 9 * (C	Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.	in 10). If the bu	ut-for price	is greater t	han the ac	tual price, set t	to zero.					
13	= Column 11 + Column 12.	Column 12.											

\$51,230,148 \$20,201,545,347

\$20,150,315,199

Attachment E.2: Nexium Direct Purchaser Overcharges Assuming Generic Launch on April 1, 2009

Actual Nextum Purchases Yardsticks Bull-For Purchases Bull-For Purchases Quantity Average Change Generic Generic Dinis Generic Dinis Generic Generic Units Price Pric		1	2	3	4	2	9	7	8	6	10	11	12	13
Quantity Average Generic Bride Generic Brand (Pills) Generic (Pills)		Actua	al Nexium Purchas	ses		Yardsticks		Ш	3ut-For Pui	chases			Overcharges	
Quantity Sales Price Price (APIB)				Average	Generic	Generic	Brand		Generic		Brand			
(Pills) Net Sales (\$FPIII) Share Change Change (Pills) (\$FPIII) (\$FPIIII) (\$FPIII) (\$FPIIII) (\$FPIIII) (\$FPIIII) (\$FPIIII) (\$FPIIII) (\$FPIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Quantity		Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
344,590,681 \$1,549,462,904 \$4.50 344,590,681 \$1,549,462,904 \$4.51 370,370,888 \$1,670,966,347 \$4.51 358,376,852 \$1,616,747,386 \$4.51 358,376,852 \$1,616,747,386 \$4.51 358,376,852 \$1,616,747,386 \$4.51 358,376,852 \$1,666,829,125 \$4.76 370,370,888 \$1,670,966,347 \$4.52 34,613,503 \$1,606,829,125 \$4.76 34,613,503 \$1,606,829,125 \$4.80 34,613,503 \$1,606,829,125 \$4.80 34,613,503 \$1,606,829,125 \$4.80 34,613,503 \$1,606,829,125 \$4.80 34,613,503 \$1,606,829,125 \$4.80 34,613,503 \$1,606,829,125 \$4.80 34,613,503 \$1,616,747,386 \$4.80 34,613,609,773 \$1,645,068,809 \$4.80 34,613,609,773 \$1,617,187,775 \$4.60 34,613,609,773 \$1,617,187,775 \$4.60 34,613,613,613,613,613,613,613,613,613,613	Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
370,370,888 \$1,670,968,347 \$4.51 64.6% -40.8% -2.0% 239,373,322 \$5.66 130,997,566 \$4.41 358,376,822 \$1,616,147,386 \$4.51 86.3% -6.4% 309,119,679 \$2.66 49,257,173 \$4.21 358,556,485 \$1,659,417,762 \$4.63 88.7% -64.0% -1.6% 318,146,042 \$1.62 40,410,444 \$4.43 37,613,503 \$1,606,829,125 \$4.76 90.4% -64.0% -0.2% 316,784,778 \$1.62 26,125,195 \$4.49 342,009,973 \$1,645,068,869 \$4.89 92.4% -64.0% -0.2% 314,679,120 \$1.62 21,506,343 \$4.61 340,358,296 \$1,643,480,690 \$4.83 94.6% -64.0% 14.7% 321,902,231 \$1.62 14,600,026 \$5.16 340,358,296 \$1,643,480,690 \$4.83 94.6% -64.0% 14.7% 321,902,231 \$1.62 14,600,026 \$5.16 340,358,296 \$1,643,480,690 \$4.83 94.6% -64.0% </td <td>2009Q1</td> <td>344,590,681</td> <td>\$1,549,462,904</td> <td>\$4.50</td> <td></td>	2009Q1	344,590,681	\$1,549,462,904	\$4.50										
358,376,852 \$1,616,747,386 \$4.51 86.3% -42.3% -6.4% 309,119,679 \$2.60 49,257,173 \$4.21 358,556,485 \$1,659,417,762 \$4.63 88.7% -63.4% -1.6% 318,146,042 \$1.65 40,410,444 \$4.43 358,556,485 \$1,659,417,762 \$4.63 88.7% -64.0% -2.4% 305,295,073 \$1.65 40,410,444 \$4.43 342,909,973 \$1,645,068,869 \$4.83 92.4% -64.0% 2.2% 316,784,778 \$1.62 21,506,343 \$4.43 342,909,973 \$1,645,068 \$6.483 92.4% -64.0% 12.3% 314,679,120 \$1.65 21,506,343 \$4.63 303,971,918 \$1,526,485,048 \$5.02 95.6% -64.6% 19.3% 314,679,120 \$1.62 \$1.64 312,062,380 \$1,520,485,148 \$5.04 96.6% -64.6% 19.3% 314,679,120 \$1.62 \$1.64 312,062,380 \$1,520,652,211 \$4.87 96.6% -64.6% 19.3% <	2009Q2	370,370,888	\$1,670,966,347	\$4.51	64.6%	-40.8%	-2.0%	239,373,322	\$2.66	130,997,566	\$4.41	\$442,506,589	\$13,853,266	\$456,359,855
358,556,485 \$1,659,417,762 \$4,63 88.7% -63.4% -1.6% 318,146,042 \$1.65 40,410,444 \$4,43 337,613,503 \$1,606,829,125 \$4.76 90.4% -64.0% 2.4% 305,295,073 \$1.65 40,410,444 \$4,43 337,613,503 \$1,606,829,125 \$4.76 90.4% -64.0% -0.2% 316,784,778 \$1.62 32,318,430 \$4.61 336,185,463 \$1,646,086 \$4.83 92.4% -64.0% -0.2% 316,784,778 \$1.62 26,125,195 \$4.61 336,185,463 \$1,678,344,774 \$4.69 93.6% -64.0% 11,7% 321,902,231 \$1.606,329,133 \$4.63 336,186,562 \$1,641,034,048 \$5.04 96.6% -64.0% 11,7% 321,902,231 \$1.641,033,084 \$5.10 95.4% -64.0% 11,8% 301,657,487 \$1.50 \$1.50 \$1.641,033,084 \$5.10 95.7% -66.2% 18.8% 313,325,822 \$1.42 \$1.641,033,084 \$5.1 \$1.75 \$2.88 \$2.40 </td <td>2009Q3</td> <td>358,376,852</td> <td>\$1,616,747,386</td> <td>\$4.51</td> <td>86.3%</td> <td>-42.3%</td> <td>-6.4%</td> <td>309,119,679</td> <td>\$2.60</td> <td>49,257,173</td> <td>\$4.21</td> <td>\$591,980,206</td> <td>\$14,802,015</td> <td>\$606,782,221</td>	2009Q3	358,376,852	\$1,616,747,386	\$4.51	86.3%	-42.3%	-6.4%	309,119,679	\$2.60	49,257,173	\$4.21	\$591,980,206	\$14,802,015	\$606,782,221
337,613,503 \$1,606,829,125 \$4.76 90.4% -64.0% 2.4% 305,295,073 \$1.62 32,318,430 \$4.61 342,909,973 \$1,606,829,125 \$4.80 \$2.4% -64.0% -0.2% 316,784,778 \$1.62 26,125,195 \$4.49 342,909,973 \$1,645,068,869 \$4.80 \$2.4% -64.0% 3.1% 314,679,120 \$1.62 21,506,343 \$4.63 340,358,296 \$1,643,480,690 \$4.83 \$4.6% -64.0% 14.7% \$21,902,231 \$1.62 21,506,343 \$4.63 303,971,918 \$1,526,485,048 \$5.04 \$6.6% -64.0% 16.1% \$289,962,892 \$1.62 17,501,397 \$5.16 319,678,317 \$1,611,187,175 \$5.04 \$6.6% -64.6% 19.3% \$30,886,920 \$1.60,002 \$5.37 319,678,317 \$1,611,187,175 \$5.04 \$6.6% -64.6% 19.3% \$31,602,231 \$1.60,403 \$5.34 310,678,317 \$1,611,187,175 \$5.19 \$6.6% -64.6% 19.3% <td>2009Q4</td> <td>358,556,485</td> <td>\$1,659,417,762</td> <td>\$4.63</td> <td>88.7%</td> <td>-63.4%</td> <td>-1.6%</td> <td>318,146,042</td> <td>\$1.65</td> <td>40,410,444</td> <td>\$4.43</td> <td>\$948,248,244</td> <td>\$8,182,188</td> <td>\$956,430,432</td>	2009Q4	358,556,485	\$1,659,417,762	\$4.63	88.7%	-63.4%	-1.6%	318,146,042	\$1.65	40,410,444	\$4.43	\$948,248,244	\$8,182,188	\$956,430,432
342,909,973 \$1,645,068,869 \$4.80 92.4% -64.0% -0.2% 316,784,778 \$1.62 26,125,195 \$4.49 336,185,463 \$1,578,344,774 \$4.69 93.6% -64.0% 3.1% 314,679,120 \$1.62 21,506,343 \$4.63 340,358,296 \$1,643,480,690 \$4.83 94.6% -64.0% 14.7% 321,902,231 \$1.62 15.06,343 \$4.63 303,971,918 \$1,526,485,048 \$5.02 95.4% -64.0% 16.1% 289,962,892 \$1.62 14,009,026 \$5.16 319,678,317 \$1,611,187,175 \$5.04 96.6% -64.6% 19.3% 308,886,920 \$1.62 14,009,026 \$5.37 319,678,317 \$1,611,187,175 \$5.04 96.6% -64.6% 19.3% 301,677,487 \$1.62 10,709,026 \$5.37 312,062,380 \$1,526,485,048 \$5.10 97.7% -66.2% 18.8% 301,657,487 \$1.62 10,404,894 \$5.34 321,062,380 \$1,520,486,040 \$5.13 96.9% <td>2010Q1</td> <td>337,613,503</td> <td>\$1,606,829,125</td> <td>\$4.76</td> <td>90.4%</td> <td>-64.0%</td> <td>2.4%</td> <td>305,295,073</td> <td>\$1.62</td> <td>32,318,430</td> <td>\$4.61</td> <td>\$959,202,019</td> <td>\$4,964,603</td> <td>\$964,166,622</td>	2010Q1	337,613,503	\$1,606,829,125	\$4.76	90.4%	-64.0%	2.4%	305,295,073	\$1.62	32,318,430	\$4.61	\$959,202,019	\$4,964,603	\$964,166,622
336,185,463 \$1,578,344,774 \$4,69 93.6% -64.0% 3.1% 314,679,120 \$1.62 21,506,343 \$4,638,296 \$4,638,296 \$1,643,480,690 \$4,83 94,6% -64.0% 14.7% 321,902,231 \$1.62 18,456,064 \$5.16 303,971,918 \$1,526,485,048 \$5.02 95.4% -64.0% 16.1% 289,962,892 \$1.62 14,009,026 \$5.16 319,678,317 \$1,611,187,175 \$5.04 96.6% -64.6% 19.3% 308,886,920 \$1.62 14,009,026 \$5.37 312,067,317 \$1,611,187,175 \$5.04 96.6% -64.6% 19.3% 308,886,920 \$1.60,791,397 \$5.37 312,062,320 \$1,520,652,211 \$4.87 96.6% -64.6% 19.3% 30.886,920 \$1.60,791,397 \$5.37 312,062,330 \$1,520,465,040 \$5.16 97.7% -71.5% 29.8% 256,490,898 \$1.22 \$1.42 \$6.87,790 \$2.84 283,790,829 \$1,482,450,406 \$5.23 \$6.9% 77.4%	2010Q2	342,909,973	\$1,645,068,869	\$4.80	92.4%	-64.0%	-0.2%	316,784,778	\$1.62	26,125,195	\$4.49	\$1,007,340,355	\$8,131,751	\$1,015,472,106
340,358,296 \$1,643,480,690 \$4.88 94.6% -64.0% 14.7% 321,902,231 \$1.62 18,456,064 \$5.16 303,971,918 \$1,526,485,048 \$5.02 95.4% -64.0% 16.1% 289,962,892 \$1.62 14,009,026 \$5.22 319,678,317 \$1,611,187,175 \$5.04 96.6% -64.6% 19.3% 308,886,920 \$1.62 14,009,026 \$5.22 312,082,380 \$1,520,652,211 \$4.87 96.6% -64.6% 19.3% 308,886,920 \$1.64 90,791,397 \$5.37 321,987,932 \$1,641,033,084 \$5.10 97.3% -68.5% 28.8% 313,325,822 \$1.42 \$6.62,110 \$5.79 284,078,806 \$1,539,897,049 \$5.15 97.1% -71.9% 30.3% 275,016,957 \$1.42 \$1.87,37,908 \$5.84 286,007,757 \$1,495,738,212 \$5.23 96.9% -71.4% 36.4% 277,165,345 \$1.08 \$1.63,411 \$6.1% 286,5007,757 \$1,495,738,212 \$5.49 \$6.9%<	2010Q3		\$1,578,344,774	\$4.69	93.6%	-64.0%	3.1%	314,679,120	\$1.62	21,506,343	\$4.63	\$968,385,244	\$1,296,325	\$969,681,569
303,971,918 \$1,526,485,048 \$5.02 95.4% -64.0% 16.1% 289,962,892 \$1.62 14,009,026 \$5.22 319,678,317 \$1,611,187,175 \$5.04 96.6% -64.6% 19.3% 308,886,920 \$1.62 14,009,026 \$5.22 319,678,317 \$1,611,187,175 \$5.04 96.6% -64.6% 19.3% 308,886,920 \$1.59 10,791,397 \$5.37 312,062,380 \$1,520,652,211 \$4.87 96.7% -66.2% 18.8% 301,657,487 \$1.52 10,404,894 \$5.34 321,987,932 \$1,641,033,084 \$5.10 97.3% -68.5% 28.8% 313,325,822 \$1.42 8.62,110 \$5.79 264,078,806 \$1,482,450,406 \$5.22 96.9% -71.4% 30.3% 275,016,957 \$1.28 7.587,908 \$5.84 286,007,757 \$1,495,738,212 \$5.23 96.9% -71.4% 36.4% 277,165,345 \$1.08 \$1.68,41 \$6.18 286,5007,757 \$1,495,738,21 \$5.53 96.9%	2010Q4		\$1,643,480,690	\$4.83	94.6%	-64.0%	14.7%	321,902,231	\$1.62	18,456,064	\$5.16	\$1,033,688,799	\$0	\$1,033,688,799
319,678,317 \$1,611,187,175 \$5.04 96.6% -64.6% 19.3% 308,886,920 \$1.59 10,791,397 \$5.37 312,062,380 \$1,520,652,211 \$4.87 96.6% -64.6% 19.3% 301,657,487 \$1.52 10,791,397 \$5.37 321,987,932 \$1,641,033,084 \$5.10 \$7.3% -68.5% 28.8% 313,325,822 \$1.42 8,662,110 \$5.79 264,078,806 \$1,359,897,049 \$5.15 \$7.1% -71.5% 29.8% 275,016,957 \$1.26 8,737,87 \$5.88 283,790,829 \$1,482,450,406 \$5.22 \$6.9% -71.4% 36.4% 277,165,345 \$1.26 8,737,187 \$5.88 286,007,757 \$1,495,738,212 \$5.23 \$6.9% -71.4% 36.4% 277,165,345 \$1.08 \$1.68,471 \$6.18 286,007,757 \$1,495,738,212 \$5.53 \$6.9% -75.9% 40.0% 287,382,559 \$1.08 \$1.68,471 \$6.18 288,501,007 \$5.54 \$6.9% -75.9% <t< td=""><td>2011Q1</td><td></td><td>\$1,526,485,048</td><td>\$5.02</td><td>95.4%</td><td>-64.0%</td><td>16.1%</td><td>289,962,892</td><td>\$1.62</td><td>14,009,026</td><td>\$5.22</td><td>\$987,122,625</td><td>\$0</td><td>\$987,122,625</td></t<>	2011Q1		\$1,526,485,048	\$5.02	95.4%	-64.0%	16.1%	289,962,892	\$1.62	14,009,026	\$5.22	\$987,122,625	\$0	\$987,122,625
312,062,380 \$1,520,652,211 \$4.87 96.7% -66.2% 18.8% 301,657,487 \$1.52 10,404,894 \$5.34 321,987,932 \$1,641,033,084 \$5.10 \$7.3% -68.5% 28.8% 313,325,822 \$1.42 8,662,110 \$5.79 264,078,806 \$1,359,897,049 \$5.15 97.1% -71.5% 29.8% 256,490,898 \$1.28 8,627,110 \$5.79 283,790,829 \$1,482,450,406 \$5.22 96.9% -71.9% 30.3% 275,016,957 \$1.28 8,758,790 \$5.88 286,007,757 \$1,495,738,212 \$5.23 96.9% -71.4% 36.4% 277,165,345 \$1.08 8,798,81 \$5.86 286,007,757 \$1,495,738,11 \$5.53 96.9% -75.9% 40.0% 241,120,92 \$1.08 7,692,486 \$6.46 284,807,553 \$1,634,614,615 \$5.78 96.9% -75.9% 43.6% 244,120,92 \$1.08 7,992,486 \$6.46 282,674,50,38 \$1,518,078,347 \$5.78 96.9%	2011Q2	319,678,317	\$1,611,187,175	\$5.04	%9.96	-64.6%	19.3%	308,886,920	\$1.59	10,791,397	\$5.37	\$1,065,785,584	\$0	\$1,065,785,584
321,987,932 \$1,641,033,084 \$5.10 97.3% -68.5% 28.8% 313,325,822 \$1.42 8,662,110 \$5.79 264,078,806 \$1,359,897,049 \$5.15 97.1% -71.5% 29.8% 256,490,898 \$1.28 7,587,908 \$5.84 283,780,829 \$1,482,450,406 \$5.22 96.9% -71.9% 30.3% 275,016,957 \$1.26 8,773,871 \$5.86 286,007,757 \$1,495,738,212 \$5.23 96.9% -71.4% 36.4% 277,165,345 \$1.08 \$7,682,486 \$6.13 286,007,757 \$1,495,738,1 \$5.53 96.9% -75.9% 40.0% 287,382,559 \$1.08 \$7,682,486 \$6.48 248,813,414 \$1,376,691,190 \$5.53 96.9% -75.9% 43.6% 241,120,98 \$1.08 7,982,486 \$6.46 284,817,534 \$1,518,078,347 \$5.78 96.9% -75.9% 40.0% 249,263,559 \$1.08 7,952,260 \$6.9% 526,674,071 \$1,518,078,347 \$6.9% -75.9% 43.6%	2011Q3	312,062,380	\$1,520,652,211	\$4.87	%2'96	-66.2%	18.8%	301,657,487	\$1.52	10,404,894	\$5.34	\$1,011,531,195	\$0	\$1,011,531,195
264,078,806 \$1,359,897,049 \$5.15 97.1% -71.5% 29.8% \$156,490,898 \$1.28 7,587,908 \$5.84 283,790,829 \$1,482,450,406 \$5.22 96.9% -71.9% 30.3% 275,016,957 \$1.26 8,773,871 \$5.86 286,007,757 \$1,495,738,212 \$5.23 96.9% -71.4% 36.4% 277,165,345 \$1.28 8,773,871 \$5.86 296,550,930 \$1,616,111,381 \$5.53 96.9% -75.9% 40.0% 287,382,559 \$1.08 7,692,486 \$6.46 248,813,414 \$1,376,691,190 \$5.53 96.9% -75.9% 43.6% 241,120,928 \$1.08 7,692,486 \$6.46 284,597,553 \$1,634,614,615 \$5.74 96.9% -75.9% 47.2% 275,798,740 \$1.08 8,798,812 \$6.62 262,674,071 \$1,518,078,347 \$5.78 96.9% -75.9% 56.8% 254,553,059 \$1.08 7,952,260 \$6.95 257,215,820 \$1,514,653,791 \$5.89 96.9%	2011Q4	321,987,932	\$1,641,033,084	\$5.10	97.3%	-68.5%	28.8%	313,325,822	\$1.42	8,662,110	\$5.79	\$1,153,234,780	\$0	\$1,153,234,780
283,790,829 \$1,482,450,406 \$5.22 96.9% -71.9% 30.3% 275,016,957 \$1.26 8,773,871 \$5.86 286,007,757 \$1,495,738,212 \$5.23 96.9% -71.4% 36.4% 277,165,345 \$1.28 8,424,411 \$6.13 296,550,930 \$1,616,111,381 \$5.45 96.9% -75.9% 40.0% 287,382,559 \$1.08 9,168,371 \$6.30 248,813,414 \$1,376,691,190 \$5.53 96.9% -75.9% 43.6% 241,120,928 \$1.08 7,692,486 \$6.46 284,597,553 \$1,634,614,615 \$5.74 96.9% -75.9% 47.2% 275,798,740 \$1.08 8,798,812 \$6.62 262,674,071 \$1,518,078,347 \$5.78 96.9% -75.9% 50.8% 254,553,059 \$1.08 7,952,260 \$6.95 257,215,820 \$1,514,653,791 \$5.89 96.9% -75.9% 54.5% 249,263,559 \$1.08 7,952,260 \$6.95	2012Q1	264,078,806	\$1,359,897,049	\$5.15	97.1%	-71.5%	29.8%	256,490,898	\$1.28	7,587,908	\$5.84	\$992,289,682	\$0	\$992,289,682
286,007,757 \$1,495,738,212 \$5.23 96.9% -71.4% 36.4% 277,165,345 \$1.28 \$8,42,411 \$6.13 296,550,930 \$1,616,111,381 \$5.45 96.9% -75.9% 40.0% 287,382,559 \$1.08 9,168,371 \$6.30 248,813,414 \$1,376,691,190 \$5.53 96.9% -75.9% 43.6% 241,120,928 \$1.08 7,692,486 \$6.46 284,597,553 \$1,634,614,615 \$5.74 96.9% -75.9% 47.2% 275,798,740 \$1.08 8,798,812 \$6.62 262,674,071 \$1,518,078,347 \$5.78 96.9% -75.9% 50.8% 254,553,059 \$1.08 7,952,260 \$6.96 257,215,820 \$1,514,653,791 \$5.89 96.9% -75.9% 54.5% 249,263,559 \$1.08 7,952,260 \$6.96	2012Q2	283,790,829	\$1,482,450,406	\$5.22	%6.96	-71.9%	30.3%	275,016,957	\$1.26	8,773,871	\$5.86	\$1,088,864,273	\$0	\$1,088,864,273
296,550,930 \$1,616,111,381 \$5.45 96.9% -75.9% 40.0% 287,382,559 \$1.08 9,168,371 \$6.30 248,813,414 \$1,376,691,190 \$5.53 96.9% -75.9% 43.6% 241,120,928 \$1.08 7,692,486 \$6.46 \$24,597,553 \$1,634,614,615 \$5.74 96.9% -75.9% 47.2% 275,798,740 \$1.08 8,798,812 \$6.62 \$26,674,071 \$1,518,078,347 \$5.78 96.9% -75.9% 50.8% 254,553,059 \$1.08 7,952,260 \$6.98 \$27,215,820 \$1,514,653,791 \$5.89 96.9% -75.9% 54.5% 249,263,559 \$1.08 7,952,260 \$6.95	2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-71.4%	36.4%	277,165,345	\$1.28	8,842,411	\$6.13	\$1,093,654,458	\$0	\$1,093,654,458
248,813,414 \$1,376,691,190 \$5.53 96.9% -75.9% 43.6% 241,120,928 \$1.08 7,692,486 \$6.46 \$24,597,553 \$1,634,614,615 \$5.74 96.9% -75.9% 47.2% 275,798,740 \$1.08 8,798,812 \$6.62 \$26,674,071 \$1,518,078,347 \$5.78 96.9% -75.9% 50.8% 254,553,059 \$1.08 8,121,011 \$6.78 \$27,215,820 \$1,514,653,791 \$5.89 96.9% -75.9% 54.5% 249,263,559 \$1.08 7,952,260 \$6.95	2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6.96	-75.9%	40.0%	287,382,559	\$1.08	9,168,371	\$6.30	\$1,254,995,917	\$0	\$1,254,995,917
284,597,553 \$1,634,614,615 \$5.74 96.9% -75.9% 47.2% 275,798,740 \$1.08 8,798,812 \$6.62 \$1.62 \$22,674,071 \$1,518,078,347 \$5.89 96.9% -75.9% 54.5% 249,263,559 \$1.08 7,952,260 \$6.95 \$1.00 \$7.95,240 \$1.00 \$7.95,240 \$1.00 \$7.95,240 \$1.00 \$7.952,260 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.	2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-75.9%	43.6%	241,120,928	\$1.08	7,692,486	\$6.46	\$1,073,065,523	\$0	\$1,073,065,523
5	2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-75.9%	47.2%	275,798,740	\$1.08	8,798,812	\$6.62	\$1,285,468,955	\$0	\$1,285,468,955
557,215,820 \$1,514,653,791 \$5.89 96.9% -75.9% 54.5% 249,263,559 \$1.08 7,952,260 \$6.95	2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-75.9%	20.8%	254,553,059	\$1.08	8,121,011	\$6.78	\$1,195,538,417	\$0	\$1,195,538,417
	2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-75.9%	54.5%	249,263,559	\$1.08	7,952,260	\$6.95	\$1,197,946,707	\$0	\$1,197,946,707
2014Q1 167,838,379 \$1,006,690,517 \$6.00 96.9% -75.9% 58.1% 162,649,373 \$1.08 5,189,006 \$7.11	2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	58.1%	162,649,373	\$1.08	5,189,006	\$7.11	\$799,465,623	\$0	\$799,465,623

Privileged and Confidential: Subject to Court Order

= Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

= Column 1 * Column 4. = Column 3 in 2009Q1 * (1 + Column 5).

= C.1 Column 2. = C.1 Column 3. = C.2.a Column 11. = C.2.a Column 12. = C.2.a Column 13.

Total Notes: = Column 3 in 2009Q1 * (1 + Column 6).

= Column 1 * (1 - Column 4).

\$17,808,253,289 \$83,078,904 \$17,891,332,193

Privileged and Confidential: Subject to Court Order

Attachment E.3: Nexium Direct Purchaser Overcharges Assuming Generic Launch on October 1, 2009

	_	2	က	4	2	9	7	∞	တ	10	1	12	13
	Actus	Actual Nexium Purchases	ses		Yardsticks			But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2009Q3	358,376,852	\$1,616,747,386	\$4.51										
2009Q4	358,556,485	\$1,659,417,762	\$4.63	64.6%	-40.8%	-2.0%	231,737,590	\$2.67	126,818,895	\$4.42	\$453,349,025	\$26,343,422	\$479,692,446
2010Q1	337,613,503	\$1,606,829,125	\$4.76	86.3%	-42.3%	-6.4%	291,210,153	\$2.60	46,403,351	\$4.22	\$627,438,766	\$24,813,691	\$652,252,457
2010Q2	342,909,973	\$1,645,068,869	\$4.80	88.7%	-63.4%	-1.6%	304,262,941	\$1.65	38,647,032	\$4.44	\$956,742,055	\$13,807,183	\$970,549,237
2010Q3	336,185,463	\$1,578,344,774	\$4.69	90.4%	-64.0%	2.4%	304,003,734	\$1.62	32,181,729	\$4.62	\$933,917,507	\$2,380,527	\$936,298,034
2010Q4	340,358,296	\$1,643,480,690	\$4.83	92.4%	-64.0%	-0.2%	314,427,504	\$1.62	25,930,791	\$4.50	\$1,008,015,059	\$8,500,668	\$1,016,515,727
2011Q1	303,971,918	\$1,526,485,048	\$5.02	93.6%	-64.0%	3.1%	284,526,329	\$1.62	19,445,589	\$4.65	\$967,102,821	\$7,233,414	\$974,336,235
2011Q2	319,678,317	\$1,611,187,175	\$5.04	94.6%	-64.0%	14.7%	302,343,633	\$1.62	17,334,684	\$5.18	\$1,033,175,479	\$0	\$1,033,175,479
2011Q3	312,062,380	\$1,520,652,211	\$4.87	95.4%	-64.0%	16.1%	297,680,493	\$1.62	14,381,888	\$5.24	\$967,493,485	\$0	\$967,493,485
2011Q4	321,987,932	\$1,641,033,084	\$5.10	%9.96	-64.6%	19.3%	311,118,570	\$1.59	10,869,362	\$5.38	\$1,089,451,602	\$0	\$1,089,451,602
2012Q1	264,078,806	\$1,359,897,049	\$5.15	%2'96	-66.2%	18.8%	255,273,797	\$1.52	8,805,009	\$5.36	\$925,349,174	\$0	\$925,349,174
2012Q2	283,790,829	\$1,482,450,406	\$5.22	97.3%	-68.5%	28.8%	276,156,296	\$1.42	7,634,532	\$5.81	\$1,050,263,469	\$0	\$1,050,263,469
2012Q3	286,007,757	\$1,495,738,212	\$5.23	97.1%	-71.5%	29.8%	277,789,754	\$1.29	8,218,003	\$5.86	\$1,095,777,434	\$0	\$1,095,777,434
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6.96	-71.9%	30.3%	287,382,559	\$1.27	9,168,371	\$5.88	\$1,201,562,889	\$0	\$1,201,562,889
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-71.4%	36.4%	241,120,928	\$1.29	7,692,486	\$6.15	\$1,023,546,736	\$0	\$1,023,546,736
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-75.9%	40.0%	275,798,740	\$1.09	8,798,812	\$6.32	\$1,284,487,858	\$0	\$1,284,487,858
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-75.9%	43.6%	254,553,059	\$1.09	8,121,011	\$6.48	\$1,194,632,897	\$0	\$1,194,632,897
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-75.9%	47.2%	249,263,559	\$1.09	7,952,260	\$6.64	\$1,197,060,004	\$0	\$1,197,060,004
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	20.8%	162.649.373	\$1.09	5.189.006	\$6.81	\$798.887.032	\$0	\$798,887,032

Notes: Total

= C.1 Column 2. = C.1 Column 3.

= C.2.a Column 11. = C.2.a Column 12.

= Column 1 * Column 4. = C.2.a Column 13.

= Column 3 in 2009Q3 * (1 + Column 5).

= Column 1 * (1 - Column 4). = Column 3 in 2009Q3 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

\$44,159,200 \$15,124,746,590

\$15,080,587,389

Privileged and Confidential: Subject to Court Order

Attachment E.4: Nexium Direct Purchaser Overcharges Assuming Generic Launch on April 1, 2010

	_	2	က	4	2	9	7	œ	6	10	1	12	13
	Actus	Actual Nexium Purchases	ses		Yardsticks		П	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2010Q1	337,613,503	\$1,606,829,125	\$4.76										
2010Q2	342,909,973	\$1,645,068,869	\$4.80	64.6%	-40.8%	-2.0%	221,625,139	\$2.82	121,284,834	\$4.66	\$438,533,087	\$16,250,393	\$454,783,479
2010Q3	336,185,463	\$1,578,344,774	\$4.69	86.3%	-42.3%	-6.4%	289,978,390	\$2.75	46,207,073	\$4.46	\$564,543,514	\$10,993,684	\$575,537,198
2010Q4	340,358,296	\$1,643,480,690	\$4.83	88.7%	-63.4%	-1.6%	301,998,845	\$1.74	38,359,450	\$4.68	\$931,626,147	\$5,539,450	\$937,165,596
2011Q1	303,971,918	\$1,526,485,048	\$5.02	90.4%	-64.0%	2.4%	274,873,866	\$1.71	29,098,052	\$4.87	\$909,765,715	\$4,271,860	\$914,037,575
2011Q2	319,678,317	\$1,611,187,175	\$5.04	92.4%	-64.0%	-0.2%	295,323,066	\$1.71	24,355,251	\$4.75	\$982,831,388	\$7,103,814	\$989,935,203
2011Q3	312,062,380	\$1,520,652,211	\$4.87	93.6%	-64.0%	3.1%	292,099,231	\$1.71	19,963,150	\$4.91	\$923,288,214	\$0	\$923,288,214
2011Q4	321,987,932	\$1,641,033,084	\$5.10	94.6%	-64.0%	14.7%	304,528,008	\$1.71	17,459,924	\$5.46	\$1,030,683,511	\$0	\$1,030,683,511
2012Q1	264,078,806	\$1,359,897,049	\$5.15	95.4%	-64.0%	16.1%	251,908,317	\$1.71	12,170,489	\$5.53	\$865,947,122	\$0	\$865,947,122
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%9.96	-64.6%	19.3%	274,210,888	\$1.68	9,579,941	\$5.68	\$971,036,457	\$0	\$971,036,457
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%2'96	-66.2%	18.8%	276,471,585	\$1.61	9,536,171	\$5.66	\$1,001,162,680	\$0	\$1,001,162,680
2012Q4	296,550,930	\$1,616,111,381	\$5.45	97.3%	-68.5%	28.8%	288,573,126	\$1.50	7,977,804	\$6.13	\$1,140,147,196	\$0	\$1,140,147,196
2013Q1	248,813,414	\$1,376,691,190	\$5.53	97.1%	-71.5%	29.8%	241,664,134	\$1.36	7,149,280	\$6.18	\$1,009,498,375	\$0	\$1,009,498,375
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-71.9%	30.3%	275,798,740	\$1.34	8,798,812	\$6.20	\$1,214,949,935	\$0	\$1,214,949,935
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-71.4%	36.4%	254,553,059	\$1.36	8,121,011	\$6.49	\$1,125,231,318	\$0	\$1,125,231,318
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-75.9%	40.0%	249,263,559	\$1.15	7,952,260	\$6.66	\$1,182,171,040	\$0	\$1,182,171,040
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	43.6%	162,649,373	\$1.15	5,189,006	\$6.84	\$789,171,690	\$0	\$789,171,690

Notes: Total

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = C.2.a Column 11. = C.2.a Column 12.

= Column 1 * Column 4. = C.2.a Column 13.

= Column 3 in 2010Q1 * (1 + Column 5).

= Column 1 * (1 - Column 4). = Column 3 in 2010Q1 * (1 + Column 6).

= Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

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Attachment E.5: Nexium Direct Purchaser Overcharges Assuming Generic Launch on October 1, 2010

	~	7	က	4	2	9	7	œ	6	10	1	12	13
	Actna	Actual Nexium Purchases	ses		Yardsticks		Ш	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
(Quantity	0	Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2010Q3	336,185,463	\$1,578,344,774	\$4.69										
2010Q4	340,358,296	\$1,643,480,690	\$4.83	64.6%	-40.8%	-2.0%	219,975,972	\$2.78	120,382,324	\$4.60	\$450,559,440	\$27,506,833	\$478,066,274
2011Q1	303,971,918	\$1,526,485,048	\$5.02	86.3%	-42.3%	-6.4%	262,192,441	\$2.71	41,779,477	\$4.40	\$605,934,101	\$26,123,333	\$632,057,434
2011Q2	319,678,317	\$1,611,187,175	\$5.04	88.7%	-63.4%	-1.6%	283,649,565	\$1.72	36,028,752	\$4.62	\$941,674,423	\$15,105,074	\$956,779,497
2011Q3	312,062,380	\$1,520,652,211	\$4.87	90.4%	-64.0%	2.4%	282,189,860	\$1.69	29,872,520	\$4.81	\$898,514,456	\$1,911,910	\$900,426,366
2011Q4	321,987,932	\$1,641,033,084	\$5.10	92.4%	-64.0%	-0.2%	297,456,719	\$1.69	24,531,213	\$4.68	\$1,013,653,310	\$10,121,023	\$1,023,774,334
2012Q1	264,078,806	\$1,359,897,049	\$5.15	93.6%	-64.0%	3.1%	247,185,245	\$1.69	16,893,561	\$4.84	\$855,447,508	\$5,246,807	\$860,694,315
2012Q2	283,790,829	\$1,482,450,406	\$5.22	94.6%	-64.0%	14.7%	268,402,158	\$1.69	15,388,671	\$5.39	\$948,777,450	\$0	\$948,777,450
2012Q3	286,007,757	\$1,495,738,212	\$5.23	95.4%	-64.0%	16.1%	272,826,638	\$1.69	13,181,119	\$5.45	\$966,046,053	\$0	\$966,046,053
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%9.96	-64.6%	19.3%	286,540,246	\$1.66	10,010,684	\$5.60	\$1,085,975,667	\$0	\$1,085,975,667
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%2'96	-66.2%	18.8%	240,517,389	\$1.59	8,296,024	\$5.58	\$949,161,119	\$0	\$949,161,119
2013Q2	284,597,553	\$1,634,614,615	\$5.74	97.3%	-68.5%	28.8%	276,941,318	\$1.48	7,656,235	\$6.05	\$1,181,211,265	\$0	\$1,181,211,265
2013Q3	262,674,071	\$1,518,078,347	\$5.78	97.1%	-71.5%	29.8%	255,126,526	\$1.34	7,547,545	\$6.09	\$1,133,259,732	\$0	\$1,133,259,732
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-71.9%	30.3%	249,263,559	\$1.32	7,952,260	\$6.12	\$1,138,734,460	\$0	\$1,138,734,460
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-71.4%	36.4%	162,649,373	\$1.34	5,189,006	\$6.40	\$757,538,057	\$0	\$757,538,057
Total											\$12,926,487,042	\$86,014,980	\$13,012,502,022
Notes:													
_	= C.1 Column 1.												
2	= C.1 Column 2.	_:											
8	= C.1 Column 3.												
4	= C.2.a Column 11	11.											
2	= C.2.a Column 12.	12.											
9	= C.2.a Column 13.	13.											
7	= Column 1 * Column 4.	olumn 4.											
80	= Column 3 in 2	= Column 3 in 2010Q3 * (1 + Column 5).	umn 5).										
6	= Column 1 * (1 - Column 4).	- Column 4).											
10	= Column 3 in 2	= Column 3 in 2010Q3 * (1 + Column 6).	umn 6).										
17	= Column 7 * (C	= Column 7 * (Column 3 - Column 8)	n 8).										
12	= Column 9 * (C	= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.	n 10). If the bu	ıt-for price	is greater t	han the ac	tual price, set to	zero.					
13	= Column 11 + Column 12	Column 12.											

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Attachment E.6: Nexium Direct Purchaser Overcharges Assuming Generic Launch on April 1, 2011

	_	7	က	4	2	9	7	œ	6	10	11	12	13
	Actu	Actual Nexium Purchases	es		Yardsticks			But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity	:	Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2011Q1	303,971,918	\$1,526,485,048	\$5.02										
2011Q2	319,678,317	\$1,611,187,175	\$5.04	64.6%	-40.8%	-2.0%	206,610,355	\$2.97	113,067,962	\$4.92	\$426,846,368	\$13,512,076	\$440,358,444
2011Q3	312,062,380	\$1,520,652,211	\$4.87	86.3%	-42.3%	-6.4%	269,170,909	\$2.90	42,891,472	\$4.70	\$531,175,113	\$7,301,145	\$538,476,258
2011Q4	321,987,932	\$1,641,033,084	\$5.10	88.7%	-63.4%	-1.6%	285,698,879	\$1.84	36,289,053	\$4.94	\$930,408,506	\$5,589,141	\$935,997,647
2012Q1	264,078,806	\$1,359,897,049	\$5.15	90.4%	-64.0%	2.4%	238,799,567	\$1.81	25,279,239	\$5.14	\$798,342,912	\$146,734	\$798,489,646
2012Q2	283,790,829	\$1,482,450,406	\$5.22	92.4%	-64.0%	-0.2%	262,169,729	\$1.81	21,621,100	\$5.01	\$895,914,126	\$4,617,784	\$900,531,910
2012Q3	286,007,757	\$1,495,738,212	\$5.23	93.6%	-64.0%	3.1%	267,711,365	\$1.81	18,296,392	\$5.18	\$916,449,525	\$983,131	\$917,432,656
2012Q4	296,550,930	\$1,616,111,381	\$5.45	94.6%	-64.0%	14.7%	280,470,338	\$1.81	16,080,592	\$5.76	\$1,021,824,986	\$0	\$1,021,824,986
2013Q1	248,813,414	\$1,376,691,190	\$5.53	95.4%	-64.0%	16.1%	237,346,455	\$1.81	11,466,959	\$5.83	\$884,492,687	\$0	\$884,492,687
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%9.96	-64.6%	19.3%	274,990,379	\$1.78	9,607,174	\$5.99	\$1,091,241,214	\$0	\$1,091,241,214
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%2'96	-66.2%	18.8%	253,915,899	\$1.70	8,758,171	\$5.97	\$1,036,519,143	\$0	\$1,036,519,143
2013Q4	257,215,820	\$1,514,653,791	\$5.89	97.3%	-68.5%	28.8%	250,296,207	\$1.58	6,919,612	\$6.47	\$1,078,101,639	80	\$1,078,101,639
2014Q1	167,838,379	\$1,006,690,517	\$6.00	97.1%	-71.5%	29.8%	163,015,795	\$1.43	4,822,584	\$6.52	\$744,570,516	\$0	\$744,570,516
Total											\$10,355,886,737	\$32,150,011	\$10,388,036,747
Notes:													
_	= C.1 Column 1.	-											
2	= C.1 Column 2.	2.											
က	= C.1 Column 3.	3.											
4	= C.2.a Column 11.	n 11.											
2	= C.2.a Column 12.	n 12.											
9	= C.2.a Column 13.	n 13.											
7	= Column 1 * Column 4	Solumn 4.											
80	= Column 3 in	= Column 3 in 2011Q1 * (1 + Column 5).	nmn 5).										
6	= Column 1 * (1 - Column 4)	1 - Column 4).											
10	= Column 3 in ;	Column 3 in 2011Q1 * (1 + Column 6).	nmn 6).										
7	= Column 7 * ((Column 7 * (Column 3 - Column 8)	.(8 ر										
12	= Column 9 * (= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.	າ 10). If the bເ	ut-for price	is greater t	han the ac	stual price, set t	o zero.					
13	= Column 11 + Column 12	- Column 12.											

= Column 1 * Column 4. = Column 3 in 2011Q3 * (1 + Column 5). = Column 1 * (1 - Column 4).

- 7 c 4 c 0 / 8 0 0 7 7 c c

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = C.2.a Column 11. = C.2.a Column 12. = C.2.a Column 13.

Notes:

= Column 3 in 2011Q3 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). = Column 11 + Column 12.

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Attachment E.7: Nexium Direct Purchaser Overcharges Assuming Generic Launch on October 1, 2011

	Action Movim Durchage	COCOCACT		V 010 10 10 V			Dut For Durchases	opodor			Occapación	
	Actual Nevialli F.	Average	Generic	Generic	Brand		Generic	Clases	Brand		Overeinges	
Que	Quantity	Sales Price	Ž			Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
	(Pills) Net Sales) Share	ਹੋ	င်	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges		Overcharges
312,062,380	380 \$1,520,652,211	211 \$4.87										
321,987,932	7,932 \$1,641,033,084	084 \$5.10	0 64.6%	-40.8%	-2.0%	208,103,076	\$2.89	113,884,856	\$4.77	\$460,045,990	\$36,662,647	\$496,708,638
264,078,806	3,806 \$1,359,897,049	049 \$5.15	86.3%	-42.3%	-6.4%	227,782,445	\$2.81	36,296,360	\$4.56	\$532,103,613	\$21,281,466	\$553,385,079
283,790,829),829 \$1,482,450,406	406 \$5.22	88.7%	-63.4%	-1.6%	251,806,710	\$1.79	31,984,119	\$4.80	\$865,795,155	\$13,680,541	\$879,475,696
286,007,757	7,757 \$1,495,738,212	212 \$5.23	3 90.4%	-64.0%	2.4%	258,629,344	\$1.75	27,378,412	\$4.99	\$899,210,665	\$6,527,848	\$905,738,514
296,550,930	,930 \$1,616,111,381	381 \$5.45	5 92.4%	-64.0%	-0.2%	273,957,679	\$1.75	22,593,251	\$4.86	\$1,012,770,039	\$13,286,355	\$1,026,056,394
248,813,414	3,414 \$1,376,691,190	190 \$5.53	3 93.6%	-64.0%	3.1%	232,896,406	\$1.75	15,917,008	\$5.02	\$880,382,397	\$8,125,703	\$888,508,099
284,597,553	7,553 \$1,634,614,615	615 \$5.74	94.6%	-64.0%	14.7%	269,165,137	\$1.75	15,432,416	\$5.59	\$1,074,162,666	\$2,354,296	\$1,076,516,962
262,674,071	1,071 \$1,518,078,347	347 \$5.78	3 95.4%	-64.0%	16.1%	250,568,321	\$1.75	12,105,749	\$5.66	\$1,008,898,986	\$1,467,229	\$1,010,366,214
257,215,820	5,820 \$1,514,653,791	791 \$5.89	%9.96	-64.6%	19.3%	248,532,972	\$1.72	8,682,847	\$5.82	\$1,035,381,368	\$632,740	\$1,036,014,108
167,838,379	3,379 \$1,006,690,517	517 \$6.00	%2'96 (-66.2%	18.8%	162,242,253	\$1.65	5,596,126	\$5.79	\$705,933,245	\$1,161,061	\$707,094,306

Exhibit 2

UNITED STATES DISTRICT COURT DISTRICT OF MASSACHUSETTS

In re: NEXIUM (ESOMEPRAZOLE)

ANTITRUST LITIGATION

This Document Relates To:

Direct Purchaser Class Actions

MDL No. 2409

Civil Action No. 1:12-md-2409

REPORT OF RAYMOND S. HARTMAN
CALCULATION OF DAMAGES FOR THE
CLASS OF DIRECT PURCHASERS OF NEXIUM

Because this report may cite some documents that the defendant(s) designated "Highly Confidential" or "Attorney Confidential," I have stamped my report "Highly Confidential." By affixing this stamp, I do not intend to convey that I, or Plaintiffs' counsel, believe that the subject matter of this report or the documents cited therein are, in fact, highly confidential.

EXECUTIVE SUMMARY

As previously noted in my declaration in support of class certification,¹ I have been retained by counsel for the named plaintiffs who propose to represent a Class of direct purchasers in this matter,² all of whom purchased the brand-name drug Nexium directly from AstraZeneca during the Class Period. In my previous declaration I demonstrated that based on common evidence, it could be shown that the Class of direct purchasers suffered antitrust injury in the form of overcharges and that these overcharges can be calculated on a class-wide basis. In that report I calculated such damages. In this report, I finalize my damages calculations.

Based on the current factual assumptions that I have been asked to make by counsel (*i.e.*, assumptions about what the evidence will show regarding when generic entry would have occurred if the defendants had not violated the law), and using formulaic approaches and common evidence, I calculate the overcharge damages to the Class of direct purchasers to range from \$4.9 billion to \$23.3 billion depending on the assumed "but-for" scenario.

I understand that discovery in this matter is ongoing. I reserve the right to update my analysis as additional information is provided to me.

I. QUALIFICATIONS

1. My name is Raymond S. Hartman. I am Director and President of Greylock McKinnon Associates (GMA), a consulting and litigation support firm located in Cambridge, Massachusetts. I have previously submitted my qualifications with my July 26, 2013, declaration and therefore I do not repeat them here.

¹ Declaration of Raymond S. Hartman in Support of Certification of the Class of Direct Purchasers of Nexium, July 26, 2013.

² In re: Nexium (esomeprazole) Antitrust Litigation; MDL No. 2409, Civil Action No. 12-md-02409-WGY, US District Court for the District of Massachusetts.

REPORT OF DR. RAYMOND S. HARTMAN: NEXIUM – DIRECT PURCHASERS HIGHLY CONFIDENTIAL

II. DAMAGE CALCULATIONS

2. Counsel has asked me to consider alternative "but-for" scenarios as to when AB-rated generics for Nexium would have launched absent the anti-competitive behavior by the defendants. I have been asked to address three base scenarios. Each scenario assumes a different entry date for the first-to-file generic and the authorized generic. For each of these base scenarios I then add additional generic entrants as described below.

Scenario 1

Scenario 1.A

- A generic with first-to-file status would have launched on August 1, 2008.
- AstraZeneca would have launched an authorized generic on August 1, 2008.

Scenario 1.B

- A generic with first-to-file status would have launched on August 1, 2008.
- AstraZeneca would have launched an authorized generic on August 1, 2008.
- A third generic would have launched on August 1, 2009.

Scenario 1.C

- A generic with first-to-file status would have launched on August 1, 2008.
- AstraZeneca would have launched an authorized generic on August 1, 2008.
- A third generic would have launched on August 1, 2009.
- A fourth generic would have launched June 6, 2010.

Scenario 2

Scenario 2.A

- A generic with first-to-file status would have launched on December 1, 2010.
- AstraZeneca would have launched an authorized generic on December 1, 2010.

Scenario 2.B

- A generic with first-to-file status would have launched on December 1, 2010.
- AstraZeneca would have launched an authorized generic on December 1, 2010.
- A third generic would have launched 180 days later on June 1, 2011.

Scenario 2.C

- A generic with first-to-file status would have launched on December 1, 2010.
- AstraZeneca would have launched an authorized generic on December 1, 2010.
- A third generic would have launched 180 days later on June 1, 2011.
- A fourth generic would have launched 180 days later on June 1, 2011.

Scenario 3

Scenario 3.A

- A generic with first-to-file status would have launched on April 1, 2012.
- AstraZeneca would have launched an authorized generic on April 1, 2012.

Scenario 3.B

- A generic with first-to-file status would have launched on April 1, 2012.
- AstraZeneca would have launched an authorized generic on April 1, 2012.
- A third generic would have launched 180 days later on October 1, 2012.

Scenario 3.C

- A generic with first-to-file status would have launched on April 1, 2012.
- AstraZeneca would have launched an authorized generic on April 1, 2012.
- A third generic would have launched 180 days later on October 1, 2012.
- A fourth generic would have launched 180 days later on October 1, 2012.
- 3. Based on these scenarios, I calculate damages using the methodology put forth in my July 26, 2013 declaration. A summary of my overcharge calculations for the above listed scenarios are presented below in Table 1. My damage calculations appear in Attachment C.³ Attachment D presents a list of direct purchasers for each of the three scenarios above.

³ Note that counsel has asked that I calculate damages through the trial which is assumed to be February 2014.

TABLE 1
SUMMARY OF OVERCHARGES TO THE CLASS OF DIRECT PURCHASERS

		But-For-Entry Date	Overcharges
Scenario 1:	1.A	August 1, 2008	\$16.7 billion
	1.B	August 1, 2008	\$21.7 billion
	1.C	August 1, 2008	\$23.3 billion
Scenario 2:	2.A	December 2010	\$9.0 billion
	2.B	December 2010	\$12.3 billion
	2.C	December 2010	\$13.5 billion
Scenario 3:	3.A	April 2012	\$4.9 billion
	3.B	April 2012	\$6.4 billion
	3.C	April 2012	\$6.8 billion

- 4. I have been requested by counsel to undertake mathematical calculations to modify the damages calculations to accommodate the potential that the jury selects "but-for" entry dates that differ from the above. Changes to these scenarios can be applied to my methodology as shown in Attachments E through J. In those attachments, beginning with the assumptions described above for each scenario, I calculate damages based on a variety of different alternative dates of "but-for" generic launch from January 1, 2009 through January 1, 2012. The analysis is the same as discussed above. My methodology can be used to accommodate, for example, any "but-for" entry dates and patterns of but-for generic entry that the fact finder may conclude are likely.
- 5. Note, as I indicated in my July 26, 2013 class certification declaration, the calculation of direct purchaser overcharges is based on certain assumptions as to how the law requires the estimation of overcharges to be calculated. For example, so called "generic bypass" units are to be included in the estimation. Of course, if the Court rules on a matter of law that differs from

my assumptions, these calculations can be modified to accommodate that change. Doing so is a mathematical exercise.

Raymond S. Hartman, Ph.D.

August 23, 2013

Attachment C

Attachment C.1: Summary of Nexium Direct Customer Sales

A. 1.B.	For Scenarios 1.A. 1.B. 1.C. 3.A. 3.B and 3.C			For Scenarios 2.A. 2.B and 2.C	A. 2.B and 2.C	
	1	Average Sales				Average Sales
ž	Net Sales	Price (\$/Pill) Quarter	Quarter	Quantity (Pills)	Net Sales	Price (\$/Pill)
\$1.568.812.73	2.731	\$4.26				
\$996,829,539	9,539	\$4.28				
\$1,729,597,62	,621	\$4.40				
\$1,549,462,904	,904	\$4.50				
\$1,670,966,347	,347	\$4.51				
\$1,616,747,386	386	\$4.51				
\$1,659,417,762	762	\$4.63				
\$1,606,829,125	125	\$4.76				
\$1,645,068,869	69	\$4.80				
\$1,578,344,774	74	\$4.69	\$4.69 2010 Pre Dec.	335,276,615	\$1,601,574,577	\$4.78
\$1,643,480,690	90	\$4.83	\$4.83 2010Q4 Post Dec.	129,407,102	\$627,781,804	\$4.85
\$1,526,485,048	8	\$5.02	\$5.02 2011Q1	303,971,918	\$1,526,485,048	\$5.02
\$1,611,187,175	2	\$5.04	2011Q2	319,678,317	\$1,611,187,175	\$5.04
\$1,520,652,211	_	\$4.87	\$4.87 2011Q3	312,062,380	\$1,520,652,211	\$4.87
\$1,641,033,084	34	\$5.10	\$5.10 2011Q4	321,987,932	\$1,641,033,084	\$5.10
\$1,359,897,049	49	\$5.15	\$5.15 2012Q1	264,078,806	\$1,359,897,049	\$5.15
\$1,482,450,406	901	\$5.22	\$5.22 2012Q2	283,790,829	\$1,482,450,406	\$5.22
\$1,495,738,212	212	\$5.23	\$5.23 2012Q3	286,007,757	\$1,495,738,212	\$5.23
\$1,616,111,381	381	\$5.45	\$5.45 2012Q4	296,550,930	\$1,616,111,381	\$5.45
\$1,376,691,190	06	\$5.53	\$5.53 2013Q1	248,813,414	\$1,376,691,190	\$5.53
\$1,634,614,615	315	\$5.74	2013Q2	284,597,553	\$1,634,614,615	\$5.74
\$1,518,078,347	347	\$5.78	\$5.78 2013Q3	262,674,071	\$1,518,078,347	\$5.78
\$1,514,653,791	791	\$5.89	\$5.89 2013Q4	257,215,820	\$1,514,653,791	\$5.89
\$1,006,690,517	517	\$6.00	\$6.00 2014Q1	167,838,379	\$1,006,690,517	\$6.00

Source: AstraZeneca transactional sales data including AZ-NX-MDL-00968558.txt (customer detail), AZ-NX-MDL-00968559.txt (direct sales), and AZ-NX-MDL-00968560.txt (chargebacks).

\$21,533,639,408

4,073,951,821

Total

\$36,569,840,773

7,392,600,800

Notes:

The period "2008 Pre Aug." refers to May 1 through July 31, 2008.

Oral suspension NDCs have been excluded. The IV form was not included in the raw transactional data.

Outlier records with an invoice date of May 19, 2008, negative quantity and an SAP order reason code of "Z29" have been excluded. Records with zero price and non-zero quantity have been excluded.

Excludes customers with zero or negative total net sales. Excludes "US AF-USAF ACADEMY, CO"

2013Q3 through 2014Q1 are estimated by taking the linear trend from the previous 8 quarters of available data. 2014Q1 is multiplied by 2/3 to reflect a total only through February 2014. Since the data in 2013Q2 only extend through May, that quarter is adjusted by multiplying by 3/2.

Through 2013Q2, see notes above. From 2013Q3-2014Q1, = Column 1 * Column 3.

Through 2013Q2, = Column 2 / Column 1. From 2012Q3-2014Q1, based on the linear trend from the previous 8 quarters of available data. See notes for Column 1 above. 2010 Pre Dec. includes September, October and November 2010. 7 6 4 5 9

See notes for Column 2 above. See notes for Column 3 above.

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	13	Final Yardsticks	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	20.8%	54.5%	58.1%	61.7%		%6.89	72 50%
	12	Final Ya	Generic	Price	Change		-40.8%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	-42.3%	42 3%
	1		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96
	10			Price Number of	Generics		8	3	3	3	4	4	4	4	4	4	4	5	2											
⋖	0	s Inputs	Brand	Price	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
and 3.	80	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
.A, 2.A	7		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96											
arios 1	9			Price	(\$/EN)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											
for Scena	2	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
culations	4	La		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
ck Cal	က			Price	(\$/EN)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											
Attachment C.2.a: Yardstick Calculations for Scenarios 1.A, 2.A and 3.A	2	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
ment C.2	-			Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
Attack					Quarter	0	_	2	က	4	2	9	7	8	6	10	11	12	13	41	15	16	17	18	19	20	21	22	23	24

ice Number of Generics

4

Source: IMS NSP data. Excludes oral suspension and IV forms. = Column 2 / Column 1.

Source: IMS NSP data. Excludes oral suspension and IV forms.

= Column 5 / Column 4.

= Column 4 / (Column 1 + Column 4).

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 .

Number of significant generic manufacturers.

Periods 1 and 2, = Column 8 * (2/3); Period 3 onward = Column 12 Period 2. Periods 1-13, = Column 7. Period 14 onward, = Column 7 in Period 13.

Period 1-13, = Column 9. Thereafter, based on the linear trend from the previous 8 quarters of available data. Number of generics in the but-for scenario.

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1.B
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or Scenario
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Calculations
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Attachment

			Jo J	ics		7	7	2	2	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က
14			Price Number of	Generics																									
13	dsticks	Brand	Price	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	20.8%	54.5%	58.1%	61.7%	65.3%	68.9%	72.5%
12	Final Yardsticks	Generic	Price	Change		-40.8%	-42.3%	-42.3%	-42.3%	-63.4%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%
11		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	%9.86	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96	%6:96	%6.96	%6.96	%6.96	%6.96	%6:96	%6.96	%6.96	%6:96	%6:96	%6.96
10			Price Number of	Generics		က	8	က	8	4	4	4	4	4	4	4	2	2											
6	Inputs	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
8	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
7		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96											
9			Price	(\$/EU)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											
5	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
4	Гa		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
3			Price	(\$/EU)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											
2	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
1			Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
1				Quarter	0	_	2	9	4	2	9	7	8	6	10	7	12	13	4	15	16	17	18	19	20	21	22	23	24

Source: IMS NSP data. Excludes oral suspension and IV forms. = Column 2 / Column 1.

Source: IMS NSP data. Excludes oral suspension and IV forms.

= Column 5 / Column 4. = Column 4 / (Column 1 + Column 4).

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 . Number of significant generic manufacturers.

Periods 1-13, = Column 7. Period 14 onward, = Column 7 in Period 13.

Periods 1 and 2, = Column 8 * (2/3); Periods 3-4, = Column 12, Period 2; Period 5 = Column 8, Period 3; Periods 6-16, = Column 8, Period 4.

Period 1-13, = Column 9. Thereafter, based on the linear trend from the previous 8 quarters of available data. Number of generics in the but-for scenario.

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	_	2	3	4	5	9	7	8	6	10	11	12	13	14
		Prevacid		Ľ	Lansoprazole			Yardsticks Inputs	Inputs			Final Yardsticks	dsticks	
							Generic	Generic	Brand		Generic	Generic	Brand	
	Extended		Price	Extended		Price	Market	Price	Price Number of	mber of	Market	Price	Price N	Price Number of
Quarter	Units	Dollars	(\$/EU)	Units	Dollars	(\$/EU)	Share	Change	Change G	Generics	Share	Change	Change	Generics
0	136,872,443	\$636,409,983	\$4.65											
_	42,894,565	\$195,422,857	\$4.56	78,381,720	\$141,533,738	\$1.81	64.6%	-61.2%	-2.0%	3	64.6%	-40.8%	-2.0%	2
2	14,706,983	\$64,037,087	\$4.35	92,295,550	\$157,102,854	\$1.70	86.3%	-63.4%	-6.4%	က	86.3%	-42.3%	-6.4%	2
က	10,898,260	\$49,873,528	\$4.58	85,800,550	\$146,170,833	\$1.70	88.7%	-63.4%	-1.6%	က	88.7%	-63.4%	-1.6%	က
4	9,121,110	\$43,440,243	\$4.76	86,162,290	\$144,112,624	\$1.67	90.4%	-64.0%	2.4%	3	90.4%	-64.0%	2.4%	က
2	7,339,160	\$34,045,546	\$4.64	88,992,030	\$146,280,892	\$1.64	92.4%	-64.6%	-0.2%	4	92.4%	-64.0%	-0.2%	က
9	6,046,040	\$28,975,127	\$4.79	88,465,180	\$139,015,772	\$1.57	93.6%	-66.2%	3.1%	4	93.6%	-64.0%	3.1%	က
7	5,067,620	\$27,035,196	\$5.33	88,387,110	\$129,412,967	\$1.46	94.6%	-68.5%	14.7%	4	94.6%	-64.0%	14.7%	က
8	4,355,650	\$23,515,693	\$5.40	90,154,510	\$119,409,121	\$1.32	95.4%	-71.5%	16.1%	4	95.4%	-64.0%	16.1%	က
6	3,160,790	\$17,540,254	\$5.55	90,472,690	\$118,296,822	\$1.31	%9.96	-71.9%	19.3%	4	%9.96	-64.0%	19.3%	က
10	3,008,120	\$16,620,485	\$5.53	87,211,070	\$115,779,417	\$1.33	%2'96	-71.4%	18.8%	4	%2'96	-64.0%	18.8%	က
7	2,762,430	\$16,543,298	\$5.99	99,922,614	\$111,870,973	\$1.12	97.3%	-75.9%	28.8%	4	97.3%	-64.0%	28.8%	က
12	2,609,730	\$15,752,281	\$6.04	88,215,620	\$104,993,978	\$1.19	97.1%	-74.4%	29.8%	2	97.1%	-64.0%	29.8%	က
13	1,982,360	\$12,010,968	\$6.06	62,137,066	\$73,753,582	\$1.19	%6.96	-74.5%	30.3%	2	%6.96	-64.0%	30.3%	က
14											%6.96	-64.0%	36.4%	က
15											%6.96	-64.0%	40.0%	က
16											%6.96	-64.0%	43.6%	က
17											%6:96	-64.0%	47.2%	က
18											%6:96	-64.0%	20.8%	က
19											%6:96	-64.0%	54.5%	က
20											%6:96	-64.0%	58.1%	3
21											%6:96	-64.0%	61.7%	က
22											%6:96	-64.0%	65.3%	က
23											%6.96	-64.0%	68.9%	က
24											%6:96	-64.0%	72.5%	3

Attachment C.2.c: Yardstick Calculations for Scenarios 2.B and 3.B

Source: IMS NSP data. Excludes oral suspension and IV forms. = Column 2 / Column 1.

Source: IMS NSP data. Excludes oral suspension and IV forms.

= Column 5 / Column 4.

= Column 4 / (Column 1 + Column 4).

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 .

Number of significant generic manufacturers.

Periods 1-13, = Column 7. Period 14 onward, = Column 7 in Period 13.

Periods 1 and 2, = Column 8 * (2/3); Periods 3-4, = Column 8; Period 5 and beyond, = Column 8, Period 4.

Period 1-13, = Column 9. Thereafter, based on the linear trend from the previous 8 quarters of available data. Number of generics in the but-for scenario.

Attachment C.2.d: Yardstick Calculations for Scenario 1.C

14			Price Number of	Generics		2	2	2	2	က	က	ဂ	ဂ	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
13	Isticks	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	20.8%	54.5%	58.1%	61.7%	65.3%	68.9%	72.5%
12	Final Yardsticks	Generic	Price	Change		-40.8%	-42.3%	-42.3%	-42.3%	-63.4%	-64.0%	-64.0%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	75 9%
11		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6 96
10			Price Number of	Generics		က	က	က	က	4	4	4	4	4	4	4	2	2											_
ກ	lnputs	Brand	Price	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
Σ Σ	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
_		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96											
.9			Price	(\$/EN)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											
9	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
4	La		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
· ·			Price	(\$/EU)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											_
7.	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
-	1		Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
L				larter																									_

Source: IMS NSP data. Excludes oral suspension and IV forms. Notes: 1-2

= Column 2 / Column 1.

Source: IMS NSP data. Excludes oral suspension and IV forms.

= Column 5 / Column 4.

= Column 4 / (Column 1 + Column 4).

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 .

Number of significant generic manufacturers.

Periods 1-13, = Column 7. Period 14 onward, = Column 7 in Period 13.

Periods 1 and 2, = Column 8 * (2/3); Periods 3-4, = Column 12, Period 2; Period 5, = Column 8, Period 3; Periods 6-8, = Column 8, Period 9-15, = Column 8 starting in Period 5; Period 16 onward, = Column 8 in Period 11. 3 6 6 6 7 7 7 8 8 9 10 11

Period 1-13, = Column 9. Thereafter, based on the linear trend from the previous 8 quarters of available data £ 4

Number of generics in the but-for scenario.

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14			Price Number o	Generic						•	•	•	•	•	•	•	•	•		•	•	•	•						
13	dsticks	Brand	Price	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	20.8%	54.5%	58.1%	61.7%	65.3%	%6.89	72.5%
12	Final Yardsticks	Generic	Price	Change		-40.8%	-42.3%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%
11		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96
10			Price Number of	Generics		က	က	က	က	4	4	4	4	4	4	4	2	2											
6	Inputs	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
8	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
7		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6:96											
9			Price	(\$/EU)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											
5	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
4	La		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
3			Price	(\$/EN)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											
2	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
7			Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
!				Quarter	0	_	2	3	4	2	9	7	8	6	10	1	12	13	41	15	16	17	18	19	20	21	22	23	24

ofics

Attachment C.2.e: Yardstick Calculations for Scenarios 2.C and 3.C

Source: IMS NSP data. Excludes oral suspension and IV forms. = Column 2 / Column 1. 1-2 3 3 4-5 6 6 6 7 7 7 10 110 113 113 113

Source: IMS NSP data. Excludes oral suspension and IV forms. = Column 5 / Column 4.

= Column 4 / (Column 1 + Column 4).

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 .

Number of significan generic manufacturers.

Periods 1 - 13, = Column 7; Period 14 onward, = Column 7 in Period 13.

Periods 1 and 2, = Column 8 * (2/3); Periods 3-9, = Column 8 starting in Period 5; Period 10 onward, = Column 8 in Period 11.

Periods 1-13, = Column 9; Period 14 onward, based on the trend from the previous 8 quarters of available data. Number of generics in the but-for scenario.

Attachment C.3: Nexium Direct Purchaser Overcharges Assuming Generic Launch in August 2008 Scenario 1.A

Scenario 1.A		,	,			,	ı	,	,	:	;	!	•
		.7	3	4	5	9	,	œ	6	10	11	12	13
	Actu	Actual Nexium Purchases	ses		Yardsticks		Е	But-For Purchases	chases			Overcharges	
	Oriantity		Average Sales Price	Generic	Generic	Brand	Generic I Inite	Generic	Brand I Inite	Brand	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
0000	020 320	000 000 000 000	20.4										
2008 Pre Aug.	233,117,576	41,306,612,731	94.Z0	64.6%	-40 8%	%0 6-	150 665 504	42 52	82 452 021	47 18	\$263 944 764	\$8 231 330	\$272 176 094
200863 - 631 749.	303 177 650	\$1 729 597 621	07.4.50	20.5.00	12.3%	8.0.7	339 137 275	\$2.75	54 040 375	00 00	\$657,747,04	\$22 030 052	\$670,170,034
200804	344 500 684	\$1,729,337,021 \$1,549,462,904	+ + + + + + + + + + + + + + + + + + +	0/ C.00	12.3%	t. 7	305,131,213	\$2.40 82.40	38 836 453	0.77	\$622 386 000	\$11 710 546	\$634 008 546
200902	370,370,888	\$1,349,402,304	84.30	90.7 %	42.3%	0.1.0 %	334 946 720	\$2.40	35,454,167	440	\$686,796,064	\$5.171.75	\$691,090,040
2009@2	358 376 852	\$1,616,303,341 \$1,616,747,386	10.14	02.4%	42.3%	%6.0	331 073 285	\$2.40	27 303 567	27.02	\$678 816 003	\$7,070,853	\$685,886,436
200904	358,556,485	\$1,619,417,762	\$4.63	93.6%	-42.3%	3.1%	335,619,030	\$2.46	22,937,455	\$4.39	\$727.318.533	\$5,389,967	\$732,708,500
201001	337,613,503	\$1,606,829,125	\$4.76	94.6%	-42.3%	14.7%	319,306,277	\$2.46	18.307,227	\$4.89	\$733,899,622	\$0	\$733,899,622
2010Q2	342,909,973	\$1,645,068,869	\$4.80	95.4%	-42.3%	16.1%	327,106,425	\$2.46	15,803,548	\$4.95	\$764,258,899	80	\$764,258,899
2010Q3	336,185,463	\$1,578,344,774	\$4.69	%9.96	-42.3%	19.3%	324,836,834	\$2.46	11,348,629	\$5.09	\$725,655,502	\$0	\$725,655,502
2010Q4	340,358,296	\$1,643,480,690	\$4.83	%2'96	-42.3%	18.8%	329,009,949	\$2.46	11,348,346	\$5.06	\$779,004,318	\$0	\$779,004,318
2011Q1	303,971,918	\$1,526,485,048	\$5.02	97.3%	-42.3%	28.8%	295,794,475	\$2.46	8,177,443	\$5.49	\$757,482,539	\$0	\$757,482,539
2011Q2	319,678,317	\$1,611,187,175	\$5.04	97.1%	-42.3%	29.8%	310,492,841	\$2.46	9,185,476	\$5.53	\$800,783,053	\$0	\$800,783,053
2011Q3	312,062,380	\$1,520,652,211	\$4.87	%6.96	-42.3%	30.3%	302,414,447	\$2.46	9,647,934	\$5.55	\$729,410,178	\$0	\$729,410,178
2011Q4	321,987,932	\$1,641,033,084	\$5.10	%6.96	-42.3%	36.4%	312,033,133	\$2.46	9,954,799	\$5.81	\$822,398,113	\$0	\$822,398,113
2012Q1	264,078,806	\$1,359,897,049	\$5.15	%6.96	-42.3%	40.0%	255,914,365	\$2.46	8,164,441	\$5.97	\$688,059,666	\$0	\$688,059,666
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%6.96	-42.3%	43.6%	275,016,957	\$2.46	8,773,871	\$6.12	\$759,813,449	\$0	\$759,813,449
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-42.3%	47.2%	277,165,345	\$2.46	8,842,411	\$6.28	\$767,403,352	\$0	\$767,403,352
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6:96	-42.3%	20.8%	287,382,559	\$2.46	9,168,371	\$6.43	\$858,910,875	\$0	\$858,910,875
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-42.3%	54.5%	241,120,928	\$2.46	7,692,486	\$6.58	\$740,740,578	\$0	\$740,740,578
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-42.3%	58.1%	275,798,740	\$2.46	8,798,812	\$6.74	\$905,349,311	\$0	\$905,349,311
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-42.3%	61.7%	254,553,059	\$2.46	8,121,011	\$6.89	\$844,700,636	\$0	\$844,700,636
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-42.3%	65.3%	249,263,559	\$2.46	7,952,260	\$7.05	\$854,399,180	\$0	\$854,399,180
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-42.3%	%6:89	162,649,373	\$2.46	5,189,006	\$7.20	\$575,294,108	\$0	\$575,294,108
Total											\$16,744,095,757	\$59,606,173	\$16,803,701,930
										Adjustme	Adjustment Due to Statute of Limitations:	of Limitations:	\$116,009,483

Total Damages to the Class: \$16,687,692,448

= C.1 Column 2. = C.1 Column 3. = C.2.a Column 11. = C.2.a Column 12. = C.2.a Column 13. = Column 1 * Column 4. = Column 3 in 2008 Pre Aug. * (1 + Column 5). = Column 1 * (1 - Column 4).

= C.1 Column 1.

Notes:

= Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12. Due to the statute of limitations, damages from 8/1/2008 through 8/26/2008 are deducted.

= Column 3 in 2008 Pre Aug. * (1 + Column 6).

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Attachment C.4: Nexium Direct Purchaser Overcharges Assuming Generic Launch in August 2008

Scenario 1.B													
	_	2	က	4	2	9	7	80	6	10	11	12	13
	Actua	Actual Nexium Purchases	ses		/ardsticks		Ш	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Generic	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2008 Pre Aug	368 075 379	\$1 568 812 731	\$4.26										
2008Q3 Post Aug.	233,117,526	\$996,829,539	\$4.28	64.6%	-40.8%	-2.0%	150,665,504	\$2.52	82,452,021	\$4.18	\$263,944,764	\$8,231,330	\$272,176,094
2008Q4	393,177,650	\$1,729,597,621	\$4.40	86.3%	-42.3%	-6.4%	339,137,275	\$2.46	54,040,375	\$3.99	\$657,270,996	\$22,030,052	\$679,301,048
2009Q1	344,590,681	\$1,549,462,904	\$4.50	88.7%	-42.3%	-1.6%	305,754,227	\$2.46	38,836,453	\$4.19	\$622,386,000	\$11,712,546	\$634,098,546
2009Q2	370,370,888	\$1,670,966,347	\$4.51	90.4%	-42.3%	2.4%	334,916,720	\$2.46	35,454,167	\$4.37	\$686,796,064	\$5,171,425	\$691,967,489
2009Q3	358,376,852	\$1,616,747,386	\$4.51	92.4%	-63.4%	-0.2%	331,073,285	\$1.56	27,303,567	\$4.25	\$976,551,689	\$7,070,853	\$983,622,542
2009Q4	358,556,485	\$1,659,417,762	\$4.63	93.6%	-64.0%	3.1%	335,619,030	\$1.53	22,937,455	\$4.39	\$1,038,691,715	\$5,389,967	\$1,044,081,683
2010Q1	337,613,503	\$1,606,829,125	\$4.76	94.6%	-64.0%	14.7%	319,306,277	\$1.53	18,307,227	\$4.89	\$1,030,138,519	\$0	\$1,030,138,519
2010Q2	342,909,973	\$1,645,068,869	\$4.80	95.4%	-64.0%	16.1%	327,106,425	\$1.53	15,803,548	\$4.95	\$1,067,734,446	\$0	\$1,067,734,446
2010Q3	336,185,463	\$1,578,344,774	\$4.69	%9.96	-64.0%	19.3%	324,836,834	\$1.53	11,348,629	\$2.09	\$1,027,025,418	\$0	\$1,027,025,418
2010Q4	340,358,296	\$1,643,480,690	\$4.83	%2'96	-64.0%	18.8%	329,009,949	\$1.53	11,348,346	\$5.06	\$1,084,245,874	\$0	\$1,084,245,874
2011Q1	303,971,918	\$1,526,485,048	\$5.02	97.3%	-64.0%	28.8%	295,794,475	\$1.53	8,177,443	\$5.49	\$1,031,908,178	\$0	\$1,031,908,178
2011Q2	319,678,317	\$1,611,187,175	\$5.04	97.1%	-64.0%	29.8%	310,492,841	\$1.53	9,185,476	\$5.53	\$1,088,845,216	\$0	\$1,088,845,216
2011Q3	312,062,380	\$1,520,652,211	\$4.87	%6.96	-64.0%	30.3%	302,414,447	\$1.53	9,647,934	\$5.55	\$1,009,977,548	\$0	\$1,009,977,548
2011Q4	321,987,932	\$1,641,033,084	\$5.10	%6.96	-64.0%	36.4%	312,033,133	\$1.53	9,954,799	\$5.81	\$1,111,889,295	\$0	\$1,111,889,295
2012Q1	264,078,806	\$1,359,897,049	\$5.15	%6.96	-64.0%	40.0%	255,914,365	\$1.53	8,164,441	\$5.97	\$925,486,221	\$0	\$925,486,221
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%6.96	-64.0%	43.6%	275,016,957	\$1.53	8,773,871	\$6.12	\$1,014,962,584	\$0	\$1,014,962,584
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-64.0%	47.2%	277,165,345	\$1.53	8,842,411	\$6.28	\$1,024,545,671	\$0	\$1,024,545,671
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6.96	-64.0%	20.8%	287,382,559	\$1.53	9,168,371	\$6.43	\$1,125,532,293	\$0	\$1,125,532,293
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-64.0%	54.5%	241,120,928	\$1.53	7,692,486	\$6.58	\$964,442,407	\$0	\$964,442,407
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-64.0%	58.1%	275,798,740	\$1.53	8,798,812	\$6.74	\$1,161,223,752	\$0	\$1,161,223,752
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-64.0%	61.7%	254,553,059	\$1.53	8,121,011	\$6.89	\$1,080,864,229	\$0	\$1,080,864,229
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-64.0%	65.3%	249,263,559	\$1.53	7,952,260	\$7.05	\$1,085,655,398	\$0	\$1,085,655,398
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-64.0%	%6'89	162,649,373	\$1.53	5,189,006	\$7.20	\$726,193,337	\$0	\$726,193,337
Total											\$21,806,311,616	\$59,606,173	\$21,865,917,789

Adjustment Due to Statute of Limitations:

\$116,009,483

\$21,749,908,306 Total Damages to the Class:

> = Column 3 in 2008 Pre Aug. * (1 + Column 5). = Column 3 in 2008 Pre Aug. * (1 + Column 6). = Column 1 * (1 - Column 4). = Column 1 * Column 4. = C.2.b Column 11. = C.2.b Column 12. = C.2.b Column 13. = C.1 Column 2. = C.1 Column 3. = C.1 Column 1.

Notes:

= Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12. Due to the statute of limitations, damages from 8/1/2008 through 8/26/2008 are deducted.

Privileged and Confidential: Subject to Court Order

Attachment C.5: Nexium Direct Purchaser Overcharges Assuming Generic Launch in August 2008 Scenario 1.C

	~	2	က	4	2	9	7	8	6	10	1	12	13
	Actu	Actual Nexium Purchases	ses		'ardsticks		3	But-For Purchases	chases			Overcharges	
	Villacii		Average	Generic	Generic	Brand	Opposite I Inite	Generic	Property Inite	Brand	On Concession	Broad Broad	T to L
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change		(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2008 Pre Aug.	368,075,379	\$1,568,812,731	\$4.26										
2008Q3 Post Aug.	233,117,526	\$996,829,539	\$4.28	64.6%	-40.8%	-2.0%	150,665,504	\$2.52	82,452,021	\$4.18	\$263,944,764	\$8,231,330	\$272,176,094
2008Q4	393,177,650	\$1,729,597,621	\$4.40	86.3%	-42.3%	-6.4%	339,137,275	\$2.46	54,040,375	\$3.99	\$657,270,996	\$22,030,052	\$679,301,048
2009Q1	344,590,681	\$1,549,462,904	\$4.50	88.7%	-42.3%	-1.6%	305,754,227	\$2.46	38,836,453	\$4.19	\$622,386,000	\$11,712,546	\$634,098,546
2009Q2	370,370,888	\$1,670,966,347	\$4.51	90.4%	-42.3%	2.4%	334,916,720	\$2.46	35,454,167	\$4.37	\$686,796,064	\$5,171,425	\$691,967,489
2009Q3	358,376,852	\$1,616,747,386	\$4.51	92.4%	-63.4%	-0.2%	331,073,285	\$1.56	27,303,567	\$4.25	\$976,551,689	\$7,070,853	\$983,622,542
2009Q4	358,556,485	\$1,659,417,762	\$4.63	93.6%	-64.0%	3.1%	335,619,030	\$1.53	22,937,455	\$4.39	\$1,038,691,715	\$5,389,967	\$1,044,081,683
2010Q1	337,613,503	\$1,606,829,125	\$4.76	94.6%	-64.0%	14.7%	319,306,277	\$1.53	18,307,227	\$4.89	\$1,030,138,519	\$0	\$1,030,138,519
2010Q2	342,909,973	\$1,645,068,869	\$4.80	95.4%	-64.0%	16.1%	327,106,425	\$1.53	15,803,548	\$4.95	\$1,067,734,446	\$0	\$1,067,734,446
2010Q3	336,185,463	\$1,578,344,774	\$4.69	%9.96	-64.6%	19.3%	324,836,834	\$1.51	11,348,629	\$2.09	\$1,035,606,854	\$0	\$1,035,606,854
2010Q4	340,358,296	\$1,643,480,690	\$4.83	%2'96	-66.2%	18.8%	329,009,949	\$1.44	11,348,346	\$5.06	\$1,114,753,273	\$0	\$1,114,753,273
2011Q1	303,971,918	\$1,526,485,048	\$5.02	97.3%	-68.5%	28.8%	295,794,475	\$1.34	8,177,443	\$5.49	\$1,088,417,963	\$0	\$1,088,417,963
2011Q2	319,678,317	\$1,611,187,175	\$5.04	97.1%	-71.5%	29.8%	310,492,841	\$1.21	9,185,476	\$5.53	\$1,187,914,999	\$0	\$1,187,914,999
2011Q3	312,062,380	\$1,520,652,211	\$4.87	%6.96	-71.9%	30.3%	302,414,447	\$1.20	9,647,934	\$5.55	\$1,111,169,178	\$0	\$1,111,169,178
2011Q4	321,987,932	\$1,641,033,084	\$5.10	%6.96	-71.4%	36.4%	312,033,133	\$1.22	9,954,799	\$5.81	\$1,210,568,729	\$0	\$1,210,568,729
2012Q1	264,078,806	\$1,359,897,049	\$5.15	%6.96	-75.9%	40.0%	255,914,365	\$1.03	8,164,441	\$5.97	\$1,055,213,061	\$0	\$1,055,213,061
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%6.96	-75.9%	43.6%	275,016,957	\$1.03	8,773,871	\$6.12	\$1,154,372,816	\$0	\$1,154,372,816
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-75.9%	47.2%	277,165,345	\$1.03	8,842,411	\$6.28	\$1,165,044,953	\$0	\$1,165,044,953
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6.96	-75.9%	20.8%	287,382,559	\$1.03	9,168,371	\$6.43	\$1,271,210,834	\$0	\$1,271,210,834
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-75.9%	54.5%	241,120,928	\$1.03	7,692,486	\$6.58	\$1,086,670,231	\$0	\$1,086,670,231
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-75.9%	58.1%	275,798,740	\$1.03	8,798,812	\$6.74	\$1,301,030,281	\$0	\$1,301,030,281
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-75.9%	61.7%	254,553,059	\$1.03	8,121,011	\$6.89	\$1,209,901,003	\$0	\$1,209,901,003
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-75.9%	65.3%	249,263,559	\$1.03	7,952,260	\$7.05	\$1,212,010,845	\$0	\$1,212,010,845
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	%6:89	162,649,373	\$1.03	5,189,006	\$7.20	\$808,642,750	\$0	\$808,642,750
Total											\$23,356,041,964	\$59,606,173	\$23,415,648,137
										Adjustm	Adjustment Due to Statute of Limitations:	of Limitations:	\$116,009,483

\$23,299,638,654 Total Damages to the Class:

= Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12. Due to the statute of limitations, damages from 8/1/2008 through 8/26/2008 are deducted.

= Column 3 in 2008 Pre Aug. * (1 + Column 5). = Column 3 in 2008 Pre Aug. * (1 + Column 6).

= Column 1 * Column 4.

= C.2.d Column 11. = C.2.d Column 12. = C.2.d Column 13.

= C.1 Column 2. = C.1 Column 3. = C.1 Column 1.

Notes:

= Column 1 * (1 - Column 4).

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\$9,027,888,179

\$54,856,048

\$8,973,032,132

Privileged and Confidential: Subject to Court Order

Attachment C.6: Nexium Direct Purchaser Overcharges Assuming Generic Launch in December 2010	C.6: Nex	ium Direct	Purchas	ser Ov	erchar	ges A	ssuming	Gener	ic Launc	h in D(ecember 20	010	
C. 2018	_	7	က	4	2	9	7	œ	6	10	11	12	13
	Actu	Actual Nexium Purchases	ses		Yardsticks		L	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2010 Pre Dec.	335,276,615	335,276,615 \$1,601,574,577	\$4.78										
2010Q4 Post Dec.	129,407,102	\$627,781,804	\$4.85	64.6%	-40.8%	-2.0%	83,636,724	\$2.83	45,770,377	\$4.68	\$169,129,234	\$7,811,872	\$176,941,106
2011Q1	303,971,918	\$1,526,485,048	\$5.02	86.3%	-42.3%	-6.4%	262,192,441	\$2.76	41,779,477	\$4.47	\$593,518,514	\$22,914,643	\$616,433,157
2011Q2	319,678,317	\$1,611,187,175	\$5.04	88.7%	-42.3%	-1.6%	283,649,565	\$2.76	36,028,752	\$4.70	\$647,261,453	\$12,196,910	\$659,458,363
2011Q3	312,062,380	\$1,520,652,211	\$4.87	90.4%	-42.3%	2.4%	282,189,860	\$2.76	29,872,520	\$4.89	\$596,772,261	\$0	\$596,772,261
2011Q4	321,987,932	\$1,641,033,084	\$5.10	92.4%	-42.3%	-0.2%	297,456,719	\$2.76	24,531,213	\$4.77	\$695,586,449	\$8,113,828	\$703,700,277
2012Q1	264,078,806	\$1,359,897,049	\$5.15	93.6%	-42.3%	3.1%	247,185,245	\$2.76	16,893,561	\$4.92	\$591,135,324	\$3,818,794	\$594,954,117
2012Q2	283,790,829	\$1,482,450,406	\$5.22	94.6%	-42.3%	14.7%	268,402,158	\$2.76	15,388,671	\$5.48	\$661,778,278	\$0	\$661,778,278
2012Q3	286,007,757	\$1,495,738,212	\$5.23	95.4%	-42.3%	16.1%	272,826,638	\$2.76	13,181,119	\$5.55	\$674,315,839	\$0	\$674,315,839
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%9.96	-42.3%	19.3%	286,540,246	\$2.76	10,010,684	\$5.70	\$771,243,523	\$0	\$771,243,523
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%2'96	-42.3%	18.8%	240,517,389	\$2.76	8,296,024	\$5.68	\$667,412,974	\$0	\$667,412,974
2013Q2	284,597,553	\$1,634,614,615	\$5.74	97.3%	-42.3%	28.8%	276,941,318	\$2.76	7,656,235	\$6.15	\$826,802,559	\$0	\$826,802,559
2013Q3	262,674,071	\$1,518,078,347	\$5.78	97.1%	-42.3%	29.8%	255,126,526	\$2.76	7,547,545	\$6.20	\$770,788,784	\$0	\$770,788,784
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-42.3%	30.3%	249,263,559	\$2.76	7,952,260	\$6.22	\$780,326,628	\$0	\$780,326,628
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-42.3%	36.4%	162,649,373	\$2.76	5,189,006	\$6.52	\$526,960,312	\$0	\$526,960,312

= C.1 Column 4. = C.1 Column 5. = C.1 Column 6. Notes:

Total

= C.2.a Column 11. = C.2.a Column 12.

= C.2.a Column 13.

= Column 3 in 2010 Pre Dec. * (1 + Column 5). = Column 1 * Column 4.

= Column 1 * (1 - Column 4). = Column 3 in 2010 Pre Dec. * (1 + Column 6).

\$54,856,048 \$12,265,834,794

\$12,210,978,746

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Scenario 2.B		Scenario 2.8	,										
	_	2	က	4	2	9	7	80	6	10	11	12	13
	Actua	Actual Nexium Purchases	ses		Yardsticks			But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
0.00	0.00	00 4	6										
ZUIU Pre Dec.	333,270,013	770,470,0013 \$1,001,074,077	94.78										
2010Q4 Post Dec.	129,407,102	\$627,781,804	\$4.85	64.6%	-40.8%	-2.0%	83,636,724	\$2.83	45,770,377	\$4.68	\$169,129,234	\$7,811,872	\$176,941,106
2011Q1	303,971,918	\$1,526,485,048	\$5.02	86.3%	-42.3%	-6.4%	262,192,441	\$2.76	41,779,477	\$4.47	\$593,518,514	\$22,914,643	\$616,433,157
2011Q2	319,678,317	\$1,611,187,175	\$5.04	88.7%	-63.4%	-1.6%	283,649,565	\$1.75	36,028,752	\$4.70	\$933,151,089	\$12,196,910	\$945,348,000
2011Q3	312,062,380	\$1,520,652,211	\$4.87	90.4%	-64.0%	2.4%	282,189,860	\$1.72	29,872,520	\$4.89	\$890,189,482	\$0	\$890,189,482
2011Q4	321,987,932	\$1,641,033,084	\$5.10	92.4%	-64.0%	-0.2%	297,456,719	\$1.72	24,531,213	\$4.77	\$1,004,877,943	\$8,113,828	\$1,012,991,771
2012Q1	264,078,806	\$1,359,897,049	\$5.15	93.6%	-64.0%	3.1%	247,185,245	\$1.72	16,893,561	\$4.92	\$848,155,216	\$3,818,794	\$851,974,010
2012Q2	283,790,829	\$1,482,450,406	\$5.22	94.6%	-64.0%	14.7%	268,402,158	\$1.72	15,388,671	\$5.48	\$940,859,231	\$0	\$940,859,231
2012Q3	286,007,757	\$1,495,738,212	\$5.23	95.4%	-64.0%	16.1%	272,826,638	\$1.72	13,181,119	\$5.55	\$957,997,307	\$0	\$957,997,307
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%9.96	-64.0%	19.3%	286,540,246	\$1.72	10,010,684	\$5.70	\$1,069,184,215	\$0	\$1,069,184,215
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%2'96	-64.0%	18.8%	240,517,389	\$1.72	8,296,024	\$5.68	\$917,499,719	\$0	\$917,499,719
2013Q2	284,597,553	\$1,634,614,615	\$5.74	97.3%	-64.0%	28.8%	276,941,318	\$1.72	7,656,235	\$6.15	\$1,114,762,416	\$0	\$1,114,762,416
2013Q3	262,674,071	\$1,518,078,347	\$5.78	97.1%	-64.0%	29.8%	255,126,526	\$1.72	7,547,545	\$6.20	\$1,036,065,914	\$0	\$1,036,065,914
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-64.0%	30.3%	249,263,559	\$1.72	7,952,260	\$6.22	\$1,039,507,524	\$0	\$1,039,507,524
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-64.0%	36.4%	162,649,373	\$1.72	5,189,006	\$6.52	\$696,080,942	\$0	\$696,080,942

Notes:

Total

= C.1 Column 4. = C.1 Column 5. = C.1 Column 6.

= C.2.c Column 11. = C.2.c Column 12.

= C.2.c Column 13.

= Column 3 in 2010 Pre Dec. * (1 + Column 5). = Column 1 * Column 4.

= Column 1 * (1 - Column 4). = Column 3 in 2010 Pre Dec. * (1 + Column 6).

\$13,442,920,993 \$54,856,048 \$13,497,777,040

Privileged and Confidential: Subject to Court Order

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C.8: Nex		_	ΔCfi
Attachment C.8: No	Scenario 2.C		

	_	2	က	4	2	9	7	8	0	10	1	12	13
	Actus	Actual Nexium Purchases	es		Yardsticks			But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2010 Pre Dec.	335.276.615	335.276.615 \$1.601.574.577	\$4.78										
2010Q4 Post Dec.	129,407,102	\$627,781,804	\$4.85	64.6%	-40.8%	-2.0%	83,636,724	\$2.83	45,770,377	\$4.68	\$169,129,234	\$7,811,872	\$176,941,106
2011Q1	303,971,918	\$1,526,485,048	\$5.02	86.3%	-42.3%	-6.4%	262, 192, 441	\$2.76	41,779,477	\$4.47	\$593,518,514	\$22,914,643	\$616,433,157
2011Q2	319,678,317	\$1,611,187,175	\$5.04	88.7%	-64.6%	-1.6%	283,649,565	\$1.69	36,028,752	\$4.70	\$950,594,659	\$12,196,910	\$962,791,569
2011Q3	312,062,380	\$1,520,652,211	\$4.87	90.4%	-66.2%	2.4%	282,189,860	\$1.61	29,872,520	\$4.89	\$919,515,096	\$0	\$919,515,096
2011Q4	321,987,932	\$1,641,033,084	\$5.10	92.4%	-68.5%	-0.2%	297,456,719	\$1.50	24,531,213	\$4.77	\$1,068,567,312	\$8,113,828	\$1,076,681,140
2012Q1	264,078,806	\$1,359,897,049	\$5.15	93.6%	-71.5%	3.1%	247,185,245	\$1.36	16,893,561	\$4.92	\$936,549,001	\$3,818,794	\$940,367,795
2012Q2	283,790,829	\$1,482,450,406	\$5.22	94.6%	-71.9%	14.7%	268,402,158	\$1.34	15,388,671	\$5.48	\$1,041,514,759	\$0	\$1,041,514,759
2012Q3	286,007,757	\$1,495,738,212	\$5.23	95.4%	-71.4%	16.1%	272,826,638	\$1.36	13,181,119	\$5.55	\$1,054,696,372	\$0	\$1,054,696,372
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%9.96	-75.9%	19.3%	286,540,246	\$1.15	10,010,684	\$5.70	\$1,231,975,208	\$0	\$1,231,975,208
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%2'96	-75.9%	18.8%	240,517,389	\$1.15	8,296,024	\$5.68	\$1,054,143,926	\$0	\$1,054,143,926
2013Q2	284,597,553	\$1,634,614,615	\$5.74	97.3%	-75.9%	28.8%	276,941,318	\$1.15	7,656,235	\$6.15	\$1,272,100,007	\$0	\$1,272,100,007
2013Q3	262,674,071	\$1,518,078,347	\$5.78	97.1%	-75.9%	29.8%	255,126,526	\$1.15	7,547,545	\$6.20	\$1,181,009,952	\$0	\$1,181,009,952
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-75.9%	30.3%	249,263,559	\$1.15	7,952,260	\$6.22	\$1,181,120,658	\$0	\$1,181,120,658
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	36.4%	162,649,373	\$1.15	5,189,006	\$6.52	\$788,486,296	\$0	\$788,486,296

= C.1 Column 4. = C.1 Column 5. = C.1 Column 6.

Notes:

Total

= C.2.e Column 11. = C.2.e Column 12.

= Column 1 * Column 4. = C.2.e Column 13.

Privileged and Confidential: Subject to Court Order

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Attachment C.9: No	Scenario 3.A	

Actual Nexium Purchases Actual Nexium Purchases Average Generic Generic Brand Countity (Pills) Net Sales Price (S/Pill) Share Change Ch	Qua (F (F 283,790) 288,790 286,007	. 2	m	4	יכ	ď	_	0	c	7		12	7
Actual Nexium Purchases Aradsticks Brand Generic Generic Generic Generic Dults Price Price Price (Pills) Price Generic Dults Price Price Generic Dults Price Generic Dults Price Price Generic Dults Price Price Generic Dults Price Generic Generic Dults Price Generic Generic Dults Price Generic Generic Generic Dults Price Generic Generic Generic Generic Dults Price Generic Gen	Qua (F 264,078, 283,790, 286,007,		,	-)	>	_	0	n	2	=	7.	2
Quantity Average (F)/IIIs) Generic Generic Generic Duits Brand Duits Price Pr	Quantity (Pills) 264,078,806 283,790,829 286,007,757	xium Purchase			/ardsticks		3	3ut-For Pu	rchases			Overcharges	
Quantity Net Sales Sales Price Price Price Price Price Price Brand Units Price Brand Units Price Brand Units Price Brand Units Price Brand-Generic Charges 264,078,806 \$1,359,897,049 \$5.15 64.6% 40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 286,500,757 \$1,482,450,06 \$5.23 86.3% -42.3% -6.4% 246,697,368 \$2.97 33,422,222 \$50.7 \$556,645,532 286,500,930 \$1,616,111,381 \$5.53 90.4% -42.3% -4.6% 224,995,471 \$2.97 33,422,222 \$5.07 \$555,921,944 284,597,553 \$1,634,614,615 \$5.74 92.4% -42.3% -0.2% 224,995,471 \$2.97 23,817,942 \$5.27 \$555,921,944 284,597,553 \$1,634,614,615 \$5.74 92.4% -42.3% -0.2% 262,914,991 \$2.97 16,803,697 \$5.91 \$50.45,592,194 262,674,071	Quantity (Pills) (284,078,806 283,790,829 286,007,757			Generic	Generic	Brand		Generic		Brand			
(Pills) Net Sales (\$/Pill) Share Change Change Chills (\$/Pills)	264,078,806 283,790,829 286,007,757	0)	sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
264,078,806 \$1,359,897,049 \$5.15 64.6% -40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 \$5.98 283,790,829 \$1,482,450,406 \$5.22 64.6% -40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 \$5 286,007,757 \$1,495,738,212 \$5.23 86.3% -42.3% -1.6% 264,697,368 \$2.97 39,310,389 \$4.82 \$556,645,532 \$5 296,550,930 \$1,616,111,381 \$5.45 88.7% -42.3% -1.6% 224,995,471 \$2.97 23,817,942 \$5.57 \$575,921,944 284,597,553 \$1,634,614,615 \$5.74 92.4% -42.3% -0.2% 262,914,991 \$2.97 21,682,562 \$5.14 \$578,347,767 \$5 262,674,071 \$1,518,078,347 \$5.78 93.6% -42.3% 14.7% 243,268,189 \$2.97 13,947,630 \$5.91 \$709,206,473	264,078,806 283,790,829 286,007,757	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
264,078,806 \$1.35,897,049 \$5.15 64.6% -40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 \$5 283,790,820 \$1,482,450,406 \$5.22 40.6% -40.8% -2.0% 246,697,368 \$2.97 39,310,389 \$4.82 \$556,645,532 \$5 286,550,930 \$1,616,111,381 \$5.45 88.7% -42.3% -1.6% 224,995,471 \$2.97 23,817,942 \$5.77 \$575,921,944 284,597,553 \$1,634,611,610 \$5.74 92.4% -42.3% 20.2% 262,144,991 \$2.97 21,682,562 \$5.14 \$728,347,767 \$4 \$62,674,071 \$1,518,078,347 \$5.78 93.6% -42.3% 14.7% 245,870,373 \$2.97 16,803,697 \$5.31 \$689,912,606 262,674,071 \$1,514,653,791 \$5.89 94.6% -42.3% 14.7% 243,268,189 \$2.97 13,947,630 \$5.91 \$509,473 \$5.91 \$509,473 \$5.91 \$509,473 \$5.91 \$509,473 \$509,473	264,078,806 283,790,829 286,007,757		1										
283,790,829 \$1,482,450,406 \$5.22 64.6% -40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,552 \$\$ 286,007,757 \$1,495,738,212 \$5.23 86.3% -42.3% -6.4% 246,697,368 \$2.97 39,310,389 \$4.82 \$556,645,532 \$\$ 296,550,930 \$1,616,111,381 \$5.45 88.7% -42.3% -1.6% 263,128,708 \$2.97 33,422,222 \$5.07 \$651,604,221 \$ 248,813,414 \$1,376,691,190 \$5.53 90.4% -42.3% 2.4% 224,995,471 \$2.97 23,817,942 \$5.77 \$575,921,944 262,674,071 \$1,518,078,347 \$5.78 93.6% -42.3% 3.1% 245,870,373 \$2.97 16,803,697 \$5.31 \$689,912,606 257,215,820 \$1,514,653,791 \$5.89 94.6% -42.3% 14.7% 243,268,189 \$2.97 13,947,630 \$5.91 \$5.04	283,790,829	359,897,049	\$5.15										
286,007,757 \$1,495,738,212 \$5.23 86.3% -42.3% -6.4% 246,697,368 \$2.97 39,310,389 \$4.82 \$556,645,532 \$5 296,550,930 \$1,616,111,381 \$5.45 88.7% -42.3% -1.6% 263,128,708 \$2.97 33,422,222 \$5.07 \$651,604,221 \$ 248,813,414 \$1,376,691,190 \$5.53 90.4% -42.3% 2.4% 224,995,471 \$2.97 23,817,942 \$5.27 \$575,921,944 284,597,553 \$1,634,614,615 \$5.74 92.4% -42.3% -0.2% 262,914,991 \$2.97 21,682,562 \$5.14 \$728,347,767 \$ 262,674,071 \$1,518,078,347 \$5.78 93.6% -42.3% 14.7% 243,268,189 \$2.97 16,803,697 \$5.31 \$689,912,606 257,215,820 \$1,514,653,791 \$5.89 94.6% -42.3% 14.7% 243,268,189 \$2.97 13,947,630 \$5.91 \$509,206,473	286,007,757	482,450,406	\$5.22	64.6%	-40.8%	-2.0%		\$3.05	100,374,811	\$5.05	\$398,743,252	\$17,867,337	\$416,610,589
296,550,930 \$1,616,111,381 \$5.45 88.7% -42.3% -1.6% 263,128,708 \$2.97 33,422,222 \$5.07 \$651,604,221 \$ 248,813,414 \$1,376,691,190 \$5.53 90.4% -42.3% 2.4% 224,995,471 \$2.97 23,817,942 \$5.27 \$575,921,944 284,597,553 \$1,634,614,615 \$5.74 92.4% -42.3% -0.2% 262,914,991 \$2.97 21,682,562 \$5.14 \$728,347,767 \$ 262,674,071 \$1,518,078,347 \$5.78 93.6% -42.3% 3.1% 245,870,373 \$2.97 16,803,697 \$5.31 \$689,912,606 257,215,820 \$1,514,653,791 \$5.89 94.6% -42.3% 14.7% 243,268,189 \$2.97 13,947,630 \$5.91 \$5.06,473	000	195,738,212	\$5.23	86.3%	-42.3%	-6.4%	246,697,368	\$2.97	39,310,389	\$4.82	\$556,645,532	\$16,013,225	\$572,658,757
248,813,414 \$1,376,691,190 \$5.53 90.4% -42.3% 2.4% 224,995,471 \$2.97 23,817,942 \$5.27 \$521,944 284,597,553 \$1,634,614,615 \$5.74 92.4% -42.3% -0.2% 262,914,991 \$2.97 21,682,562 \$5.14 \$728,347,767 \$ 262,674,071 \$1,518,078,347 \$5.78 93.6% -42.3% 3.1% 245,870,373 \$2.97 16,803,697 \$5.31 \$689,912,606 257,215,820 \$1,514,653,791 \$5.89 94.6% -42.3% 14.7% 243,268,189 \$2.97 13,947,630 \$5.91 \$709,206,473	056,055,062	516,111,381	\$5.45	88.7%	-42.3%	-1.6%	263,128,708	\$2.97	33,422,222	\$5.07	\$651,604,221	\$12,746,154	\$664,350,374
284,597,553 \$1,634,614,615 \$5.74 92.4% -42.3% -0.2% 262,914,991 \$2.97 21,682,562 \$5.14 \$728,347,767 \$ \$ 262,674,071 \$1,518,078,347 \$5.89 93.6% -42.3% 3.1% 245,870,373 \$2.97 16,803,697 \$5.31 \$689,912,606 \$ 257,215,820 \$1,514,653,791 \$5.89 94.6% -42.3% 14.7% 243,268,189 \$2.97 13,947,630 \$5.91 \$709,206,473	248,813,414	376,691,190	\$5.53	90.4%	-42.3%	2.4%	224,995,471	\$2.97	23,817,942	\$5.27	\$575,921,944	\$6,153,293	\$582,075,237
262,674,071 \$1,518,078,347 \$5.89 93.6% -42.3% 3.1% 245,870,373 \$2.97 16,803,697 \$5.31 \$689,912,606 257,215,820 \$1,514,653,791 \$5.89 94.6% -42.3% 14.7% 243,268,189 \$2.97 13,947,630 \$5.91 \$709,206,473	284,597,553	334,614,615	\$5.74	92.4%	-42.3%	-0.2%	262,914,991	\$2.97	21,682,562	\$5.14	\$728,347,767	\$13,138,312	\$741,486,079
257,215,820 \$1,514,653,791 \$5.89 94.6% -42.3% 14.7% 243,268,189 \$2.97 13,947,630 \$5.91 \$709,206,473	262,674,071	518,078,347	\$5.78		-42.3%	3.1%	245,870,373	\$2.97	16,803,697	\$5.31	\$689,912,606	\$7,925,119	\$697,837,726
	257,215,820	514,653,791	\$5.89	94.6%	-42.3%	14.7%	243,268,189	\$2.97	13,947,630	\$5.91	\$709,206,473	\$0	\$709,206,473
1 167,838,379 \$1,006,690,517 \$6.00 95.4% -42.3% 16.1% 160,103,282 \$2.97 7,735,097 \$5.98 \$484,257,013	2014Q1 167,838,379 \$1,00	006,690,517	\$6.00	95.4%	-42.3%	16.1%	160,103,282	\$2.97	7,735,097	\$5.98	\$484,257,013	\$143,821	\$484,400,834
	Total										\$4,794,638,808	\$73,987,262	\$4,868,626,070
\$4,794,638,808													

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= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = C.2.a Column 11. = C.2.a Column 12. = C.2.a Column 13.

= Column 1 * Column 4.

= Column 3 in 2012Q1 * (1 + Column 5).
= Column 1 * (1 - Column 4).
= Column 3 in 2012Q1 * (1 + Column 6).
= Column 3 in 2012Q1 * (1 + Column 8).
= Column 7 * (Column 3 - Column 8).
= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

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Actual Nexium Purchases Average Generic Generic Generic Generic Generic Drints Brand Generic Generic Generic Generic Generic Drints Brand Generic Generic Generic Generic Drints Price Price Brand Units Price Brand-Generic Overcharges Overcharges Overcharges Statistics Statis Statistics Statistics Statistics Statis Statistics Statistics Statistics St		_	7	က	4	2	9	_	∞	ത	10	-	12	13
Quantity Average (A-In) Generic Generic Generic Danits Price Pri		Actu	ual Nexium Purchas	ses		Yardsticks		Ш	ut-For Pui	rchases			Overcharges	
Quantity Sales Price Market Price Price Frice Brand Units Price Brand Genetic Units Price Brand Genetic Units Price Brand Genetic Price Brand-Genetic Price Genetic Units Frice Fried Brand-Genetic Price Genetic Units Fried Price Brand-Genetic Price Genetic Units Fried Price Overcharges Overcharges Overcharges Overcharges Overcharges Overcharges Overcharges Price				Average	Gen	Generic	Brand		Generic		Brand			
Z64,078,806 \$1,359,897,049 \$5.15 Act. 8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 \$17,867,337 264,078,806 \$1,359,897,049 \$5.12 64.6% -40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 \$17,867,337 283,790,829 \$1,482,450,406 \$5.22 64.6% -40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 \$17,867,337 286,007,757 \$1,495,738,212 \$5.24 86.3% -42.3% -6.4% 264,09 \$1.85 23,412,322 \$5.07 \$993,750,3528 \$1.17,461,154 286,550,930 \$1,376,691,190 \$5.53 90.4% -64.0% 2.2% 224,995,471 \$1.85 23,817,942 \$5.07 \$\$828,122,788 \$1,138,312 \$\$ 284,597,553 \$1,634,614,615 \$5.78 93.6% -64.0% 2.4 245,286,189 \$1.85 16,803,697 \$5.31 \$\$965,512,4455 \$\$7,925,119 262,674,071 <td></td> <td>Quantity</td> <td></td> <td>Sales Price</td> <td></td> <td>Price</td> <td>Price</td> <td>Generic Units</td> <td>Price</td> <td>Brand Units</td> <td>Price</td> <td>Brand-Generic</td> <td>Brand-Brand</td> <td>Total</td>		Quantity		Sales Price		Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
264,078,806 \$1,359,897,049 \$5.15 64.6% -40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 \$17,867,337 283,790,829 \$1,495,738,212 \$5.22 64.6% -40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$598,743,252 \$17,867,337 286,007,757 \$1,495,738,212 \$5.23 86.3% -42.3% -6.4% 246,697,368 \$2.97 39,310,389 \$4.82 \$556,645,532 \$16,013,225 286,007,757 \$1,405,738,119 \$5.53 90.4% -64.0% 2.4% 244,995,471 \$1.85 23,417,942 \$5.07 \$591,503,528 \$1.22,797 \$6,153,293 286,507,553 \$1,634,614,615 \$5.78 92.4% -64.0% 2.2% 226,944,991 \$1.85 16,803,697 \$5.31 \$965,512,4455 \$7,925,119 262,674,071 \$1,514,653,791 \$1.6% -64.0% 14.7% 243,268,189 \$1.85 13,947,630 \$5.91 \$991,893,494 \$7,735,097 \$5.98 \$803,71	Quarter	(Pills)	_	(\$/Pill)	Share		Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
264,078,700 \$1,354,891,049 \$5.15 64.6% 40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 \$17,867,337 283,079,629 \$1,482,450,406 \$5.23 86.3% -42.3% -6.4% 246,697,368 \$2.97 39,310,389 \$4.82 \$556,645,532 \$16,013,225 286,507,930 \$1,482,450,761,10 \$5.34 -63.4% -1.6% 263,128,708 \$1.85 23,817,942 \$5.79 \$503,503,503,503,503,503,503,503,503,503,		00000		L C										
283.790,829 \$1.482,450,406 \$5.22 64.6% -40.8% -2.0% 183,416,018 \$3.05 100,374,811 \$5.05 \$398,743,252 \$17,867,337 286,007,757 \$1,482,450,406 \$5.23 86.3% -42.3% -6.4% 246,697,368 \$2.97 39,310,389 \$4.82 \$556,645,532 \$10,013,225 286,007,757 \$1,495,738,212 \$5.23 86.3% -42.3% -6.4% 246,697,368 \$2.97 39,310,389 \$4.82 \$556,645,532 \$16,013,225 296,550,930 \$1,616,111,381 \$5.45 88.7% -63.4% -1.6% 224,995,471 \$1.85 23,817,942 \$5.7 \$828,122,797 \$6,153,293 248,813,414 \$1,376,691,190 \$5.74 92.4% -64.0% -0.2% 224,995,471 \$1.85 23,817,942 \$5.74 \$1,376,132,797 \$6,153,293 284,597,553 \$1,634,614,615 \$5.74 92.4% -64.0% -0.2% 224,986,473 \$1.85 16,803,697 \$5.31 \$965,512,455 \$7,925,119 262,674,071 <td>201201</td> <td>264,078,806</td> <td></td> <td>\$5.15</td> <td></td>	201201	264,078,806		\$5.15										
286,007,757 \$1,495,738,212 \$5.23 86.3% -42.3% -6.4% 246,697,368 \$2.97 39,310,389 \$4.82 \$556,645,532 \$16,013,225 296,550,930 \$1,611,11,381 \$5.45 88.7% -63.4% -1.6% 263,128,708 \$1.89 33,422,222 \$5.07 \$937,503,528 \$11,746,154 248,813,414 \$1,376,691,190 \$5.53 90.4% -64.0% 2.4% 224,995,471 \$1.85 23,817,942 \$5.7 \$828,122,797 \$6,153,293 284,597,553 \$1,634,614,615 \$5.74 92.4% -64.0% -0.2% 262,914,991 \$1.85 21,682,562 \$5.14 \$1,023,053,188 \$13,138,312 \$1 262,674,071 \$1,518,078,347 \$5.78 93.6% -64.0% 14.7% 245,2670,373 \$1.85 13,947,630 \$5.91 \$965,512,455 \$7,925,119 257,215,820 \$1,016,690,517 \$6.00 95.4% -64.0% 16.1% 160,103,282 \$13,947,630 \$5.91 \$981,785 \$7,735,097 \$5.98 \$806,712,223	2012Q2	283,790,829	٠,	\$5.22	64.6%	-40.8%	-2.0%	183,416,018	\$3.05	100,374,811	\$5.05	\$398,743,252	\$17,867,337	\$416,610,589
296,550,930\$1,616,111,381\$5.4588.7%-63.4%-1.6%263,128,708\$1.8933,422,222\$5.07\$937,503,528\$12,746,154248,813,414\$1,376,691,190\$5.5390.4%-64.0%2.4%224,995,471\$1.8523,817,942\$5.27\$828,122,797\$6,153,293284,597,553\$1,634,614,615\$5.7492.4%-64.0%-0.2%262,914,991\$1.85\$1,682,562\$5.14\$1,023,053,188\$13,3138,312\$1262,674,071\$1,518,078,347\$5.7893.6%-64.0%14.7%245,268,189\$1.8513,947,630\$5.91\$981,889,494\$0257,215,820\$1,016,690,517\$6.0095.4%-64.0%16.1%160,103,282\$1.857,735,097\$5.98\$663,719,223\$143,821	2012Q3	286,007,757	()	\$5.23	86.3%	-42.3%	-6.4%	246,697,368	\$2.97	39,310,389	\$4.82	\$556,645,532	\$16,013,225	\$572,658,757
248,813,414 \$1,376,691,190 \$5.53 90.4% -64.0% 2.4% 224,995,471 \$1.85 23,817,942 \$5.27 \$828,122,797 \$6,153,293 284,597,553 \$1,634,614,615 \$5.74 92.4% -64.0% -0.2% 262,914,991 \$1.85 21,682,562 \$5.14 \$1,023,053,188 \$13,138,312 \$1 262,674,071 \$1,518,078,347 \$5.78 93.6% -64.0% 3.1% 245,870,373 \$1.85 16,803,697 \$5.31 \$965,512,455 \$7,925,119 257,215,820 \$1,514,653,791 \$6.09 94.6% -64.0% 16.1% 160,103,282 \$1.85 7,735,097 \$5.91 \$981,889,494 \$0 467,838,379 \$1,006,690,517 \$6.09 95.4% -64.0% 16.1% 160,103,282 \$1.85 7,735,097 \$5.98 \$663,719,223 \$143,821	2012Q4	296,550,930		\$5.45	88.7%	-63.4%	-1.6%	263,128,708	\$1.89	33,422,222	\$5.07	\$937,503,528	\$12,746,154	\$950,249,682
284,597,553 \$1,634,614,615 \$5.74 92.4% -64.0% -0.2% 262,914,991 \$1.85 21,682,562 \$5.14 \$1,023,053,188 \$13,138,312 \$1.023,057,4071 \$1,518,078,347 \$5.78 93.6% -64.0% 3.1% 245,870,373 \$1.85 16,803,697 \$5.31 \$965,512,455 \$7,925,119 \$257,215,820 \$1,514,653,791 \$5.00 95.4% -64.0% 16.1% 160,103,282 \$1.85 7,735,097 \$5.98 \$663,719,223 \$143,821	2013Q1	248.813,414		\$5.53	90.4%	-64.0%	2.4%	224.995.471	\$1.85	23.817.942	\$5.27	\$828,122,797	\$6,153,293	\$834.276.091
262,674,071 \$1,518,078,347 \$5.78 93.6% -64.0% 3.1% 245,870,373 \$1.85 16,803,697 \$5.31 \$965,512,455 \$7,925,119 257,215,820 \$1,514,653,791 \$5.00 95.4% -64.0% 14.7% 243,268,189 \$1.85 13,947,630 \$5.91 \$981,889,494 \$5.00 16.4% -64.0% 16.1% 160,103,282 \$1.85 7,735,097 \$5.98 \$663,719,223 \$143,821	201302	284,597,553		\$5.74	92.4%	-64.0%	-0.2%	262,914,991	\$1.85	21,682,562	\$5.14	\$1,023,053,188	\$13,138,312	\$1,036,191,501
257,215,820 \$1,514,653,791 \$5.89 94.6% -64.0% 14.7% 243,268,189 \$1.85 13,947,630 \$5.91 \$981,889,494 \$5.01 167,838,379 \$1,006,690,517 \$6.00 95.4% -64.0% 16.1% 160,103,282 \$1.85 7,735,097 \$5.98 \$663,719,223 \$143,821	2013Q3	262.674.071		\$5.78	93.6%	-64.0%	3.1%	245.870,373	\$1.85	16,803,697	\$5.31	\$965,512,455	\$7,925,119	\$973,437,575
167,838,379 \$1,006,690,517 \$6.00 95.4% -64.0% 16.1% 160,103,282 \$1.85 7,735,097 \$5.98 \$663,719,223 \$143,821	2013Q4	257,215,820	0)	\$5.89	94.6%	-64.0%	14.7%	243,268,189	\$1.85	13,947,630	\$5.91	\$981,889,494	0\$	\$981,889,494
	2014Q1	167,838,379		\$6.00	95.4%	-64.0%	16.1%	160,103,282	\$1.85	7,735,097	\$5.98	\$663,719,223	\$143,821	\$663,863,044

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Notes:

= C.2.c Column 13.

= Column 1 * Column 4.

= Column 3 in 2012Q1 * (1 + Column 5).
= Column 1 * (1 - Column 4).
= Column 3 in 2012Q1 * (1 + Column 6).
= Column 3 in 2012Q1 * (1 + Column 8).
= Column 7 * (Column 3 - Column 8).
= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

Privileged and Confidential: Subject to Court Order

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Scenario 3.C	,	(Ó		ı	(ı	(Ó		;	Ç	
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	Actua	Actual Nexium Purchases	ses	_	Yardsticks		В	But-For Purchases	rchases			Overcharges	
			Average	Generic Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
ລuarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2012Q1	264,078,806	\$1,359,897,049	\$5.15										
2012Q2	283,790,829	\$1,482,450,406	\$5.22	64.6%	-40.8%	-2.0%	183,416,018	\$3.05	100,374,811	\$5.05	\$398,743,252	\$17,867,337	\$416,610,589
2012Q3	286,007,757	\$1,495,738,212	\$5.23	86.3%	-42.3%	-6.4%	246,697,368	\$2.97	39,310,389	\$4.82	\$556,645,532	\$16,013,225	\$572,658,757
2012Q4	296,550,930	\$1,616,111,381	\$5.45	88.7%	-64.6%	-1.6%	263,128,708	\$1.82	33,422,222	\$5.07	\$954,947,687	\$12,746,154	\$967,693,841
2013Q1	248,813,414	\$1,376,691,190	\$5.53	90.4%	-66.2%	2.4%	224,995,471	\$1.74	23,817,942	\$5.27	\$853,329,038	\$6,153,293	\$859,482,331
2013Q2	284,597,553	\$1,634,614,615	\$5.74	92.4%	-68.5%	-0.2%	262,914,991	\$1.62	21,682,562	\$5.14	\$1,083,738,990	\$13,138,312	\$1,096,877,302
2013Q3	262,674,071	\$1,518,078,347	\$5.78	93.6%	-71.5%	3.1%	245,870,373	\$1.47	16,803,697	\$5.31	\$1,060,296,223	\$7,925,119	\$1,068,221,343
2013Q4	257,215,820	\$1,514,653,791	\$5.89	94.6%	-71.9%	14.7%	243,268,189	\$1.45	13,947,630	\$5.91	\$1,080,237,493	\$0	\$1,080,237,493
:014Q1	167,838,379	\$1,006,690,517	\$6.00	95.4%	-71.4%	16.1%	160,103,282	\$1.47	7,735,097	\$5.98	\$724,892,863	\$143,821	\$725,036,684
Total											\$6,712,831,078	\$73,987,262	\$6,786,818,340

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Notes:

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = C.2.e Column 11. = C.2.e Column 12. = C.2.e Column 13.

= Column 1 * Column 4.

= Column 3 in 2012Q1 * (1 + Column 5).
= Column 1 * (1 - Column 4).
= Column 3 in 2012Q1 * (1 + Column 6).
= Column 3 in 2012Q1 * (1 + Column 6).
= Column 7 * (Column 3 - Column 8).
= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

Attachment D

Attachment D.1: Direct Customer List Under Scenarios 1.A, 1.B and 1.C

Num.	Customer Name
1	AMERISOURCEBERGEN CORP
	AMERICAN HEALTH PACKAGING
	AMERISOURCEBERGEN CORP
	BELLCO DRUG CORP
	J M BLANCO
2	BURLINGTON DRUG CO INC
3	CAPITAL WHOLESALE DRUG CO
4	CARDINAL HEALTH INC
	CARDINAL HEALTH INC
	DIK DRUG CO INC
	KINRAY INC
5	CESAR CASTILLO INC
6	DAKOTA DRUG INC
7	DISCOUNT DRUG MART
8	DMS PHARMACEUTICAL GROUP INC
9	DROGUERIA BETANCES INC
10	DROGUERIA CTRL INC/CTRO
11	DROGUERIA DE LA VILLA INC
12	EXPRESS SCRIPTS
	MEDCO HEALTH SOLUTIONS
	PRIORITY HEALTHCARE CORP
13	FRANK W KERR CO
14	GOOD SAMARITAN HOSP & HLTH
15	H D SMITH WHLSLE DRUG CO INC
16	HARVARD DRUG GROUP LLC
17	J M SMITH CORP
18	KING DRUG CO OF FLORENCE
19	MCKESSON CORP
	MC QUEARY BROTHERS DRUG CO INC
	MCKESSON CORP
20	MIAMI LUKEN INC
21	MORRIS & DICKSON CO LTD INC
22	NORTH CAROLINA MUTUAL WHSLE
23	PHARMACY BUYING ASSOCIATES
24	PRESCRIPTION SUPPLY INC
25	R & S NORTHEAST
26	REBEL DISTRIBUTORS CORP
27	ROCHESTER DRUG COOPERATIVE INC
28	SMITH DRUG COMPANY
29	VALLEY WHLSLE DRUG CO INC
30	VALUE DRUG CO INC
31	WHOLESALERS GROUP INC

Note: Parent companies are listed and numbered above, while subsidiary companies are indented.

Attachment D.2: Direct Customer List Under Scenarios 2.A, 2.B and 2.C

Num.	Customer Name
1	AMERISOURCEBERGEN CORP
	AMERICAN HEALTH PACKAGING
	AMERISOURCEBERGEN CORP
	BELLCO DRUG CORP
	J M BLANCO
2	BURLINGTON DRUG CO INC
3	CAPITAL WHOLESALE DRUG CO
4	CARDINAL HEALTH INC
	CARDINAL HEALTH INC
	DIK DRUG CO INC
	KINRAY INC
5	CESAR CASTILLO INC
6	DAKOTA DRUG INC
7	DISCOUNT DRUG MART
8	DMS PHARMACEUTICAL GROUP INC
9	DROGUERIA BETANCES INC
10	DROGUERIA CTRL INC/CTRO
11	DROGUERIA DE LA VILLA INC
12	EXPRESS SCRIPTS
	MEDCO HEALTH SOLUTIONS
13	FRANK W KERR CO
14	H D SMITH WHLSLE DRUG CO INC
15	HARVARD DRUG GROUP LLC
16	J M SMITH CORP
17	MCKESSON CORP
18	MIAMI LUKEN INC
19	MORRIS & DICKSON CO LTD INC
20	NORTH CAROLINA MUTUAL WHSLE
21	PHARMACY BUYING ASSOCIATES
22	PRESCRIPTION SUPPLY INC
23	R & S NORTHEAST
24	REBEL DISTRIBUTORS CORP
25	ROCHESTER DRUG COOPERATIVE INC
26	SMITH DRUG COMPANY
27	VALLEY WHLSLE DRUG CO INC
28	VALUE DRUG CO INC
29	WHOLESALERS GROUP INC

Note: Parent companies are listed and numbered above, while subsidiary companies are indented.

Attachment D.3: Direct Customer List Under Scenarios 3.A, 3.B and 3.C

Num.	Customer Name
1	AMERISOURCEBERGEN CORP
	AMERISOURCEBERGEN CORP
	BELLCO DRUG CORP
	J M BLANCO
2	BURLINGTON DRUG CO INC
3	CAPITAL WHOLESALE DRUG CO
4	CARDINAL HEALTH INC
	CARDINAL HEALTH INC
	DIK DRUG CO INC
5	CESAR CASTILLO INC
6	DAKOTA DRUG INC
7	DISCOUNT DRUG MART
8	DMS PHARMACEUTICAL GROUP INC
9	DROGUERIA BETANCES INC
10	DROGUERIA CTRL INC/CTRO
11	EXPRESS SCRIPTS
	MEDCO HEALTH SOLUTIONS
12	FRANK W KERR CO
13	H D SMITH WHLSLE DRUG CO INC
14	HARVARD DRUG GROUP LLC
15	J M SMITH CORP
16	MCKESSON CORP
17	MIAMI LUKEN INC
18	MORRIS & DICKSON CO LTD INC
19	NORTH CAROLINA MUTUAL WHSLE
20	PHARMACY BUYING ASSOCIATES
21	PRESCRIPTION SUPPLY INC
22	R & S NORTHEAST
23	ROCHESTER DRUG COOPERATIVE INC
24	SMITH DRUG COMPANY
25	VALLEY WHLSLE DRUG CO INC
26	VALUE DRUG CO INC
27	WHOLESALERS GROUP INC

Note: Parent companies are listed and numbered above, while subsidiary companies are indented.

Attachment E

\$15,024,172,972 \$69,496,390 \$15,093,669,362

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= Column 1 * (1 - Column 4). = Column 3 in 2008Q4 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

= Column 3 in 2008Q4 * (1 + Column 5).

= C.2.a Column 11. = C.2.a Column 12. = C.2.a Column 13. = Column 1 * Column 4.

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3.

Notes:

Total

)))	2	=	1	2
	Actua	Actual Nexium Purchases			Yardsticks	,		But-For Purchases	chases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand		o	
	Quantity		Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
200807	393 177 650	\$1 729 597 621	\$4.40										
		\$1.549.462.904	\$4.50	64.6%	-40.8%	-2.0%	222.711.392	\$2.61	121.879.289	\$4.31	\$421,209,838	\$22.696.713	\$443,906,551
		\$1,670,966,347	\$4.51	86.3%	-42.3%	-6.4%	319,465,192	\$2.54	50,905,695	\$4.12	\$629,873,477	\$19,960,865	\$649,834,342
2009Q3 358	358,376,852	\$1,616,747,386	\$4.51	88.7%	-42.3%	-1.6%	317,986,654	\$2.54	40,390,198	\$4.33	\$626,863,699	\$7,338,934	\$634,202,633
2009Q4 358	358,556,485	\$1,659,417,762	\$4.63	90.4%	-42.3%	2.4%	324,233,265	\$2.54	34,323,220	\$4.51	\$677,030,871	\$4,193,229	\$681,224,100
2010Q1 337	337,613,503	\$1,606,829,125	\$4.76	92.4%	-42.3%	-0.2%	311,891,829	\$2.54	25,721,675	\$4.39	\$692,219,438	\$9,530,902	\$701,750,340
2010Q2 342	342,909,973	\$1,645,068,869	\$4.80	93.6%	-42.3%	3.1%	320,973,452	\$2.54	21,936,522	\$4.53	\$724,573,578	\$5,775,747	\$730,349,325
2010Q3 336	336,185,463	\$1,578,344,774	\$4.69	94.6%	-42.3%	14.7%	317,955,673	\$2.54	18,229,791	\$5.05	\$685,165,918	\$0	\$685,165,918
2010Q4 340	340,358,296	\$1,643,480,690	\$4.83	95.4%	-42.3%	16.1%	324,672,346	\$2.54	15,685,950	\$5.11	\$743,085,771	\$0	\$743,085,771
2011Q1 303	303,971,918	\$1,526,485,048	\$5.02	%9.96	-42.3%	19.3%	293,710,723	\$2.54	10,261,195	\$5.25	\$728,943,969	\$0	\$728,943,969
2011Q2 318	319,678,317	\$1,611,187,175	\$5.04	%2'96	-42.3%	18.8%	309,019,490	\$2.54	10,658,827	\$5.23	\$772,571,408	\$0	\$772,571,408
2011Q3 312	312,062,380	\$1,520,652,211	\$4.87	97.3%	-42.3%	28.8%	303,667,288	\$2.54	8,395,093	\$5.67	\$708,443,017	\$0	\$708,443,017
2011Q4 321	321,987,932	\$1,641,033,084	\$5.10	97.1%	-42.3%	29.8%	312,736,092	\$2.54	9,251,840	\$5.71	\$799,545,470	\$0	\$799,545,470
2012Q1 264	264,078,806	\$1,359,897,049	\$5.15	%6.96	-42.3%	30.3%	255,914,365	\$2.54	8,164,441	\$5.73	\$667,843,070	\$0	\$667,843,070
2012Q2 283	283,790,829	\$1,482,450,406	\$5.22	%6.96	-42.3%	36.4%	275,016,957	\$2.54	8,773,871	\$6.00	\$738,087,796	\$0	\$738,087,796
2012Q3 286	286,007,757	\$1,495,738,212	\$5.23	%6.96	-42.3%	40.0%	277,165,345	\$2.54	8,842,411	\$6.16	\$745,507,982	\$0	\$745,507,982
2012Q4 296	296,550,930	\$1,616,111,381	\$5.45	%6.96	-42.3%	43.6%	287,382,559	\$2.54	9,168,371	\$6.32	\$836,208,370	\$0	\$836,208,370
2013Q1 248	248,813,414	\$1,376,691,190	\$5.53	%6.96	-42.3%	47.2%	241,120,928	\$2.54	7,692,486	\$6.48	\$721,692,627	\$0	\$721,692,627
2013Q2 284	284,597,553	\$1,634,614,615	\$5.74	%6.96	-42.3%	20.8%	275,798,740	\$2.54	8,798,812	\$6.64	\$883,561,899	\$0	\$883,561,899
2013Q3 262	262,674,071	\$1,518,078,347	\$5.78	%6.96	-42.3%	54.5%	254,553,059	\$2.54	8,121,011	\$6.79	\$824,591,579	\$0	\$824,591,579
2013Q4 257	257,215,820	\$1,514,653,791	\$5.89	%6.96	-42.3%	58.1%	249,263,559	\$2.54	7,952,260	\$6.95	\$834,707,981	\$0	\$834,707,981
2014Q1 167	167,838,379	\$1,006,690,517	\$6.00	%6.96	-42.3%	61.7%	162,649,373	\$2.54	5,189,006	\$7.11	\$562,445,213	\$0	\$562,445,213

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	Actua	Actual Nexium Purchases	es		Yardsticks			But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand		0	
	Quantity		Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2009Q2	370,370,888	\$1,670,966,347	\$4.51										
2009Q3	358,376,852	\$1,616,747,386	\$4.51	64.6%	-40.8%	-2.0%	231,621,492	\$2.67	126,755,360	\$4.42	\$426,040,227	\$11,495,101	\$437,535,328
2009Q4	358,556,485	\$1,659,417,762	\$4.63	86.3%	-42.3%	-6.4%	309,274,622	\$2.60	49,281,863	\$4.22	\$625,692,179	\$19,867,351	\$645,559,530
2010Q1	337,613,503	\$1,606,829,125	\$4.76	88.7%	-42.3%	-1.6%	299,563,400	\$2.60	38,050,104	\$4.44	\$645,385,130	\$12,136,732	\$657,521,862
2010Q2	342,909,973	\$1,645,068,869	\$4.80	90.4%	-42.3%	2.4%	310,084,533	\$2.60	32,825,441	\$4.62	\$679,836,431	\$5,783,241	\$685,619,672
2010Q3	336,185,463	\$1,578,344,774	\$4.69	92.4%	-42.3%	-0.2%	310,572,587	\$2.60	25,612,877	\$4.50	\$649,068,080	\$4,961,458	\$654,029,539
2010Q4	340,358,296	\$1,643,480,690	\$4.83	93.6%	-42.3%	3.1%	318,585,009	\$2.60	21,773,286	\$4.65	\$708,444,753	\$3,887,784	\$712,332,537
2011Q1	303,971,918	\$1,526,485,048	\$5.02	94.6%	-42.3%	14.7%	287,488,920	\$2.60	16,482,998	\$5.18	\$694,814,971	\$0	\$694,814,97
2011Q2	319,678,317	\$1,611,187,175	\$5.04	95.4%	-42.3%	16.1%	304,945,437	\$2.60	14,732,880	\$5.24	\$742,563,804	\$0	\$742,563,804
2011Q3	312,062,380	\$1,520,652,211	\$4.87	%9.96	-42.3%	19.3%	301,528,075	\$2.60	10,534,305	\$5.38	\$683,852,289	\$0	\$683,852,289
2011Q4	321,987,932	\$1,641,033,084	\$5.10	%2'96	-42.3%	18.8%	311,252,097	\$2.60	10,735,835	\$5.36	\$775,519,347	\$0	\$775,519,347
2012Q1	264,078,806	\$1,359,897,049	\$5.15	97.3%	-42.3%	28.8%	256,974,566	\$2.60	7,104,240	\$5.81	\$653,905,854	\$0	\$653,905,854
2012Q2	283,790,829	\$1,482,450,406	\$5.22	97.1%	-42.3%	29.8%	275,636,526	\$2.60	8,154,303	\$5.86	\$721,833,563	\$0	\$721,833,563
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-42.3%	30.3%	277,165,345	\$2.60	8,842,411	\$5.88	\$727,491,581	\$0	\$727,491,581
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6.96	-42.3%	36.4%	287,382,559	\$2.60	9,168,371	\$6.15	\$817,527,826	\$0	\$817,527,826
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-42.3%	40.0%	241,120,928	\$2.60	7,692,486	\$6.32	\$706,019,198	\$0	\$706,019,198
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-42.3%	43.6%	275,798,740	\$2.60	8,798,812	\$6.48	\$865,634,331	\$0	\$865,634,331
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-42.3%	47.2%	254,553,059	\$2.60	8,121,011	\$6.64	\$808,045,030	\$0	\$808,045,030
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-42.3%	20.8%	249,263,559	\$2.60	7,952,260	\$6.81	\$818,505,262	\$0	\$818,505,262
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-42.3%	54.5%	162,649,373	\$2.60	5,189,006	\$6.97	\$551,872,621	\$0	\$551.872.627

> = C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = C.2.a Column 11. = C.2.a Column 12. Notes:

Total

= Column 1 * Column 4. = C.2.a Column 13.

= Column 3 in 2009Q2 * (1 + Column 5).

= Column 1 * (1 - Column 4).

= Column 3 in 2009Q2 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

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ocenario I.A													
	1	2	3	4	2	9	7	8	6	10	11	12	13
	Actus	Actual Nexium Purchases	ses		Yardsticks		E	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2009Q4	358,556,485	\$1,659,417,762	\$4.63										
2010Q1	337,613,503	\$1,606,829,125	\$4.76	64.6%	-40.8%	-5.0%	218,201,993	\$2.74	119,411,510	\$4.53	\$440,437,642	\$26,826,589	\$467,264,231
2010Q2	342,909,973	\$1,645,068,869	\$4.80	86.3%	-42.3%	-6.4%	295,778,648	\$2.67	47,131,325	\$4.33	\$628,584,870	\$21,841,394	\$650,426,264
2010Q3	336,185,463	\$1,578,344,774	\$4.69	88.7%	-42.3%	-1.6%	298,296,304	\$2.67	37,889,159	\$4.56	\$603,355,492	\$5,298,612	\$608,654,104
2010Q4	340,358,296	\$1,643,480,690	\$4.83	90.4%	-42.3%	2.4%	307,777,117	\$2.67	32,581,178	\$4.74	\$663,717,254	\$2,873,808	\$666,591,061
2011Q1	303,971,918	\$1,526,485,048	\$5.02	92.4%	-42.3%	-0.2%	280,813,286	\$2.67	23,158,632	\$4.62	\$659,800,228	\$9,366,831	\$669,167,059
2011Q2	319,678,317	\$1,611,187,175	\$5.04	93.6%	-42.3%	3.1%	299,227,963	\$2.67	20,450,354	\$4.77	\$708,522,418	\$5,519,185	\$714,041,603
2011Q3	312,062,380	\$1,520,652,211	\$4.87	94.6%	-42.3%	14.7%	295,140,673	\$2.67	16,921,707	\$5.31	\$649,521,827	\$0	\$649,521,827
2011Q4	321,987,932	\$1,641,033,084	\$5.10	95.4%	-42.3%	16.1%	307,148,610	\$2.67	14,839,322	\$5.37	\$744,643,565	\$0	\$744,643,565
2012Q1	264,078,806	\$1,359,897,049	\$5.15	%9.96	-42.3%	19.3%	255,164,285	\$2.67	8,914,521	\$5.52	\$632,143,094	\$0	\$632,143,094
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%2'96	-42.3%	18.8%	274,328,575	\$2.67	9,462,254	\$5.50	\$699,963,525	\$0	\$699,963,525
2012Q3	286,007,757	\$1,495,738,212	\$5.23	97.3%	-42.3%	28.8%	278,313,585	\$2.67	7,694,172	\$5.96	\$711,792,700	\$0	\$711,792,700
2012Q4	296,550,930	\$1,616,111,381	\$5.45	97.1%	-42.3%	29.8%	288,029,984	\$2.67	8,520,946	\$6.01	\$800,003,559	\$0	\$800,003,559
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-42.3%	30.3%	241,120,928	\$2.67	7,692,486	\$6.03	\$689,807,159	\$0	\$689,807,159
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-42.3%	36.4%	275,798,740	\$2.67	8,798,812	\$6.31	\$847,090,690	\$0	\$847,090,690
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-42.3%	40.0%	254,553,059	\$2.67	8,121,011	\$6.48	\$790,929,867	\$0	\$790,929,867
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-42.3%	43.6%	249,263,559	\$2.67	7,952,260	\$6.65	\$801,745,744	\$0	\$801,745,744
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-42.3%	47.2%	162,649,373	\$2.67	5,189,006	\$6.81	\$540,936,705	\$0	\$540,936,705

= C.1 Column 1. Notes:

Total

= C.1 Column 3.
= C.2 a Column 1.
= Column 1 * (1 - Column 4).
= Column 3 in 2009Q4 * (1 + Column 6).
= Column 3 in 2009Q4 * (1 + Column 8).
= Column 3 in 2009Q4 * (1 + Column 8).
= Column 3 in 2009Q4 * (1 + Column 8).
= Column 7 * (Column 3 - Column 8).
= Column 1 + Column 12.

\$9,879,225,773

\$35,054,992

\$9,844,170,781

Privileged and Confidential: Subject to Court Order

Scenario 1 A													
	-	2	က	4	2	9	7	80	6	10	11	12	13
	Actual	Actual Nexium Purchases	Sé		Yardsticks		Ш	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
000		040	6										
201002		\$1,645,068,869	\$4.80										
2010Q3	336,185,463 \$1	\$1,578,344,774	\$4.69	64.6%	-40.8%	-2.0%	217,279,041	\$2.84	118,906,423	\$4.70	\$402,768,697	\$0	\$402,768,697
2010Q4	340,358,296 \$1	\$1,643,480,690	\$4.83	86.3%	-42.3%	-6.4%	293,577,687	\$2.77	46,780,609	\$4.49	\$604,393,916	\$15,725,221	\$620,119,137
2011Q1	303,971,918 \$1	\$1,526,485,048	\$5.02	88.7%	-42.3%	-1.6%	269,713,327	\$2.77	34,258,591	\$4.72	\$607,350,423	\$10,281,792	\$617,632,215
2011Q2	319,678,317 \$1	\$1,611,187,175	\$5.04	90.4%	-42.3%	2.4%	289,076,753	\$2.77	30,601,564	\$4.91	\$656,223,619	\$3,859,237	\$660,082,856
2011Q3	312,062,380 \$1	\$1,520,652,211	\$4.87	92.4%	-42.3%	-0.2%	288,287,363	\$2.77	23,775,018	\$4.79	\$606,254,381	\$2,059,955	\$608,314,337
2011Q4	321,987,932 \$1	\$1,641,033,084	\$5.10	93.6%	-42.3%	3.1%	301,389,828	\$2.77	20,598,104	\$4.94	\$701,215,885	\$3,128,786	\$704,344,671
2012Q1	264,078,806 \$1	\$1,359,897,049	\$5.15	94.6%	-42.3%	14.7%	249,759,027	\$2.77	14,319,779	\$5.50	\$594,333,729	\$0	\$594,333,729
2012Q2	283,790,829 \$1	\$1,482,450,406	\$5.22	95.4%	-42.3%	16.1%	270,711,880	\$2.77	13,078,949	\$5.57	\$664,268,427	\$0	\$664,268,427
2012Q3	286,007,757 \$1	\$1,495,738,212	\$5.23	%9.96	-42.3%	19.3%	276,352,979	\$2.77	9,654,778	\$5.73	\$679,759,978	\$0	\$679,759,978
2012Q4	296,550,930 \$1	\$1,616,111,381	\$5.45	%2'96	-42.3%	18.8%	286,663,224	\$2.77	9,887,706	\$5.70	\$768,180,939	\$0	\$768,180,939
2013Q1	248,813,414 \$1	\$1,376,691,190	\$5.53	97.3%	-42.3%	28.8%	242,119,843	\$2.77	6,693,571	\$6.18	\$668,993,356	\$0	\$668,993,356
2013Q2	284,597,553 \$1	\$1,634,614,615	\$5.74	97.1%	-42.3%	29.8%	276,420,070	\$2.77	8,177,483	\$6.23	\$821,974,054	\$0	\$821,974,054
2013Q3	262,674,071 \$1	\$1,518,078,347	\$5.78	%6.96	-42.3%	30.3%	254,553,059	\$2.77	8,121,011	\$6.25	\$766,042,765	\$0	\$766,042,765
2013Q4	257,215,820 \$1	\$1,514,653,791	\$5.89	%6.96	-42.3%	36.4%	249,263,559	\$2.77	7,952,260	\$6.54	\$777,375,785	\$0	\$777,375,785
2014Q1	167,838,379 \$1	\$1,006,690,517	\$6.00	%6.96	-42.3%	40.0%	162,649,373	\$2.77	5,189,006	\$6.72	\$525,034,828	\$0	\$525,034,828

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = C.2.a Column 11. Notes:

Total

= C.2.a Column 12.

= C.2.a Column 13.

= Column 1 * Column 4.

= Column 3 in 2010Q2 * (1 + Column 5).
= Column 1 * (1 - Column 4).
= Column 3 in 2010Q2 * (1 + Column 6).
= Column 7 * (Column 3 - Column 8).
= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

\$8,540,165,144

\$8,466,071,533 \$74,093,611

Privileged and Confidential: Subject to Court Order

Attachment E.5: Nexium Direct Purchaser	t E.5: Nexi	um Direct	Purchas	er CV	erchar	ges A	Overcharges Assuming Generic Launch in 2011Q1	Gener	IC Launc	7	- 3		
	~	7	က	4	2	9	7	œ	6	10	1	12	13
	Actua	Actual Nexium Purchases	es		Yardsticks			But-For Purchases	ırchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2010Q4	340,358,296	\$1,643,480,690	\$4.83										
2011Q1	303,971,918	\$1,526,485,048	\$5.02	64.6%	-40.8%	-2.0%	196,459,199	\$2.86	107,512,719	\$4.73	\$424,762,361	\$31,232,157	\$455,994,518
2011Q2	319,678,317	\$1,611,187,175	\$5.04	86.3%	-42.3%	-6.4%	275,740,071	\$2.79	43,938,246	\$4.52	\$620,965,211	\$22,768,164	\$643,733,375
2011Q3	312,062,380	\$1,520,652,211	\$4.87	88.7%	-42.3%	-1.6%	276,891,969	\$2.79	35,170,412	\$4.75	\$577,286,354	\$4,235,636	\$581,521,990
2011Q4	321,987,932	\$1,641,033,084	\$5.10	90.4%	-42.3%	2.4%	291,165,277	\$2.79	30,822,655	\$4.95	\$672,165,351	\$4,641,669	\$676,807,020
2012Q1	264,078,806	\$1,359,897,049	\$5.15	92.4%	-42.3%	-0.2%	243,959,501	\$2.79	20,119,305	\$4.82	\$576,124,110	\$6,681,486	\$582,805,595
2012Q2	283,790,829	\$1,482,450,406	\$5.22	93.6%	-42.3%	3.1%	265,636,257	\$2.79	18,154,572	\$4.98	\$647,013,297	\$4,480,767	\$651,494,064
2012Q3	286,007,757	\$1,495,738,212	\$5.23	94.6%	-42.3%	14.7%	270,498,872	\$2.79	15,508,885	\$5.54	\$660,471,796	\$0	\$660,471,796
2012Q4	296,550,930	\$1,616,111,381	\$5.45	95.4%	-42.3%	16.1%	282,883,912	\$2.79	13,667,018	\$5.61	\$752,941,038	\$0	\$752,941,038
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%9.96	-42.3%	19.3%	240,414,207	\$2.79	8,399,207	\$5.76	\$659,935,741	\$0	\$659,935,741
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%2'96	-42.3%	18.8%	275,108,401	\$2.79	9,489,152	\$5.74	\$813,101,792	\$53,733	\$813,155,525
2013Q3	262,674,071	\$1,518,078,347	\$5.78	97.3%	-42.3%	28.8%	255,607,621	\$2.79	7,066,450	\$6.22	\$764,596,915	\$0	\$764,596,915
2013Q4	257,215,820	\$1,514,653,791	\$5.89	97.1%	-42.3%	29.8%	249,825,109	\$2.79	7,390,710	\$6.27	\$774,612,180	\$0	\$774,612,180
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-42.3%	30.3%	162,649,373	\$2.79	5,189,006	\$6.29	\$522,095,386	\$0	\$522,095,386

= C.1 Column 1. - 7 E 4 G 9 F 8 6 7 F 7 E Notes:

Total

= C.1 Column 2. = C.1 Column 3. = C.2.a Column 11.

= C.2.a Column 12. = C.2.a Column 13.

= Column 1 * Column 4. = Column 3 in 2010Q4 * (1 + Column 5). = Column 1 * (1 - Column 4).

= Column 3 in 2010Q4 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

\$6,817,252,521

\$6,784,060,000 \$33,192,521

Privileged and Confidential: Subject to Court Order

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Attachment	Scenario 1.A		

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	Actua	Actual Nexium Purchases	es		Yardsticks			But-For Purchases	ırchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
			1										
201102	319,678,317	\$1,611,187,175	\$5.04										
2011Q3	312,062,380	\$1,520,652,211	\$4.87	64.6%	-40.8%	-2.0%	201,688,122	\$2.98	110,374,259	\$4.94	\$380,794,556	\$0	\$380,794,556
2011Q4	321,987,932	\$1,641,033,084	\$5.10	86.3%	-42.3%	-6.4%	277,732,241	\$2.91	44,255,691	\$4.72	\$607,262,933	\$16,675,898	\$623,938,831
2012Q1	264,078,806	\$1,359,897,049	\$5.15	88.7%	-42.3%	-1.6%	234,316,294	\$2.91	29,762,512	\$4.96	\$524,757,421	\$5,627,964	\$530,385,385
2012Q2	283,790,829	\$1,482,450,406	\$5.22	90.4%	-42.3%	2.4%	256,624,634	\$2.91	27,166,194	\$5.16	\$593,747,575	\$1,664,926	\$595,412,501
2012Q3	286,007,757	\$1,495,738,212	\$5.23	92.4%	-42.3%	-0.2%	264,217,756	\$2.91	21,790,001	\$5.03	\$612,892,719	\$4,387,604	\$617,280,322
2012Q4	296,550,930	\$1,616,111,381	\$5.45	93.6%	-42.3%	3.1%	277,580,074	\$2.91	18,970,856	\$5.19	\$704,950,810	\$4,836,130	\$709,786,940
2013Q1	248,813,414	\$1,376,691,190	\$5.53	94.6%	-42.3%	14.7%	235,321,407	\$2.91	13,492,007	\$5.78	\$617,239,666	\$0	\$617,239,666
2013Q2	284,597,553	\$1,634,614,615	\$5.74	95.4%	-42.3%	16.1%	271,481,425	\$2.91	13,116,128	\$5.85	\$769,253,027	\$0	\$769,253,027
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%9.96	-42.3%	19.3%	253,806,969	\$2.91	8,867,102	\$6.02	\$728,238,474	\$0	\$728,238,474
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%2'96	-42.3%	18.8%	248,639,639	\$2.91	8,576,180	\$5.99	\$740,594,894	\$0	\$740,594,894
2014Q1	167,838,379	\$1,006,690,517	\$6.00	97.3%	-42.3%	28.8%	163,323,196	\$2.91	4,515,183	\$6.49	\$504,327,924	\$0	\$504,327,924

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3.

Notes:

Total

= C.2.a Column 11. = C.2.a Column 12. = C.2.a Column 13.

= Column 1 * Column 4. = Column 3 in 2011Q2 * (1 + Column 5).

= Column 1 * (1 - Column 4). = Column 3 in 2011Q2 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

\$5,439,315,986 \$62,968,111 \$5,502,284,097

Privileged and Confidential: Subject to Court Order

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	Actua	Actual Nexium Purchases	ses		Yardsticks		-	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2011Q4	321,987,932	\$1,641,033,084	\$5.10										
2012Q1	264,078,806	\$1,359,897,049	\$5.15	64.6%	-40.8%	-2.0%	170,675,998	\$3.02	93,402,807	\$4.99	\$363,749,523	\$14,552,409	\$378,301,932
2012Q2	283,790,829	\$1,482,450,406	\$5.22	86.3%	-42.3%	-6.4%	244,785,146	\$2.94	39,005,683	\$4.77	\$558,363,521	\$17,592,982	\$575,956,504
2012Q3	286,007,757	\$1,495,738,212	\$5.23	88.7%	-42.3%	-1.6%	253,773,783	\$2.94	32,233,974	\$5.02	\$580,381,662	\$6,884,256	\$587,265,917
2012Q4	296,550,930	\$1,616,111,381	\$5.45	90.4%	-42.3%	2.4%	268,163,261	\$2.94	28,387,669	\$5.22	\$672,281,132	\$6,509,916	\$678,791,048
2013Q1	248,813,414	\$1,376,691,190	\$5.53	92.4%	-42.3%	-0.2%	229,857,129	\$2.94	18,956,285	\$5.08	\$595,403,147	\$8,497,407	\$603,900,554
2013Q2		\$1,634,614,615	\$5.74	93.6%	-42.3%	3.1%	266,391,374	\$2.94	18,206,179	\$5.25	\$746,133,563	\$8,931,142	\$755,064,704
2013Q3	262,674,071	\$1,518,078,347	\$5.78	94.6%	-42.3%	14.7%	248,430,464	\$2.94	14,243,606	\$5.85	\$704,701,621	\$0	\$704,701,621
2013Q4	257,215,820	\$1,514,653,791	\$5.89	95.4%	-42.3%	16.1%	245,361,622	\$2.94	11,854,197	\$5.92	\$722,820,963	\$0	\$722,820,963
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%9.96	-42.3%	19.3%	162,172,651	\$2.94	5,665,728	\$6.08	\$495,480,854	\$0	\$495,480,854

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = C.2.a Column 11. = C.2.a Column 12. = C.2.a Column 13.

Notes:

Total

= Column 1 * Column 4. = Column 3 in 2011Q4 * (1 + Column 5).

= Column 1 * (1 - Column 4). = Column 3 in 2011Q4 * (1 + Column 6).

Attachment F

Privileged and Confidential: Subject to Court Order

Periods 1-13, = Column 7. Period 14 onward, = Column 7 in Period 13.

Periods 1 and 2, = Column 8 * (2/3); Periods 3-4, = Column 8; Period 5 and beyond, = Column 8, Period 4.

Period 1-13, = Column 9. Thereafter, based on the linear trend from the previous 8 quarters of available data. Number of generics in the but-for scenario.

Source: IMS NSP data. Excludes oral suspension and IV forms. = Column 2 / Column 1. Source: IMS NSP data. Excludes oral suspension and IV forms.

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 . Number of significant generic manufacturers.

= Column 5 / Column 4. = Column 4 / (Column 1 + Column 4).

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14			Price Number of	Generics		2	2	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	က	3
13	Isticks	Brand	Price	Change		-5.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	20.8%	54.5%	58.1%	61.7%	65.3%	68.9%	72.5%
12	Final Yardsticks	Generic	Price	Change		-40.8%	-42.3%	-63.4%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%	-64.0%
11		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96	%6:96	%6:96	%6:96	%6:96	%6:96	%6:96	%6.96	%6:96	%6:96	%6:96	%6.96
10			Price Number of	Generics		က	က	က	က	4	4	4	4	4	4	4	2	2											
6	Inputs	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
8	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
7		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96											
9			Price	(\$/EU)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											
5	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
4	La		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
3			Price	(\$/EU)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											
2	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
1			Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
!				Quarter	0	_	2	က	4	2	9	7		6	10	7	12	13	14	15	16	17	18	19	20	21	22	23	24

\$1,001,427,304 \$1,010,904,656 \$1,111,388,426 \$952,575,360

\$1,147,649,996 \$1,073,387,602

\$1,068,336,104 \$718,188,358 \$20,270,087,189

\$69,496,390

\$20,200,590,799

\$912,891,098

\$1,099,002,528

\$1,010,183,491 \$1,068,469,674

\$1,053,972,259

\$989,620,928

\$999,216,339

\$649,834,342

\$443,906,551

\$991,690,151

Total

13

Overcharges

\$1,000,398,982 \$1,037,693,977

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Attachment F.2: Nexium Dire	t F.2: Nex	ium Direct	Purchas	er Ove	erchar	ges As	ct Purchaser Overcharges Assuming Generic Launch in 2009Q1	Gener	ic Launc	h in 2	009Q1	
Scenario 1.B	_	2	က	4	2	9	7	œ	o	10	1	12
	Actr	Actual Nexium Purchases	ses		/ardsticks			But-For Purchases	rchases			Overcharges
	Viitaga		Average	Generic	Generic	Brand	Cononic I Inite	Generic	Brond I Inite	Brand	Brand-Dagic	Brand-Brand
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges
200804	393 177 650	41 729 597 621	07.75									
2009Q1	344,590,681		\$4.50	64.6%	-40.8%	-2.0%	222.711.392	\$2.61	121.879.289	\$4.31	\$421,209,838	\$22,696,713
2009Q2	370,370,888		\$4.51	86.3%	-42.3%	-6.4%	319,465,192	\$2.54	50,905,695	\$4.12	\$629,873,477	\$19,960,865
2009Q3	358,376,852		\$4.51	88.7%	-63.4%	-1.6%	317,986,654		40,390,198	\$4.33	\$922,010,130	\$7,338,934
2009Q4	358,556,485		\$4.63	90.4%	-64.0%	2.4%	324,233,265	\$1.58	34,323,220	\$4.51	\$987,496,922	\$4,193,229
2010Q1	337,613,503	\$1,606,829,125	\$4.76	92.4%	-64.0%	-0.2%	311,891,829	\$1.58	25,721,675	\$4.39	\$990,868,080	\$9,530,902
2010Q2	342,909,973		\$4.80	93.6%	-64.0%	3.1%	320,973,452	\$1.58	21,936,522	\$4.53	\$1,031,918,230	\$5,775,747
2010Q3	336,185,463	\$1,578,344,774	\$4.69	94.6%	-64.0%	14.7%	317,955,673	\$1.58	18,229,791	\$5.05	\$989,620,928	\$0
2010Q4	340,358,296		\$4.83	95.4%	-64.0%	16.1%	324,672,346	\$1.58	15,685,950	\$5.11	\$1,053,972,259	\$0
2011Q1	303,971,918		\$5.02	%9.96	-64.0%	19.3%	293,710,723	\$1.58	10,261,195	\$5.25	\$1,010,183,491	\$0
2011Q2	319,678,317	\$1,611,187,175	\$5.04	%2'96	-64.0%	18.8%	309,019,490	\$1.58	10,658,827	\$5.23	\$1,068,469,674	\$0
2011Q3	312,062,380	\$1,520,652,211	\$4.87	97.3%	-64.0%	28.8%	303,667,288	\$1.58	8,395,093	\$5.67	\$999,216,339	\$0
2011Q4	321,987,932	\$1,641,033,084	\$5.10	97.1%	-64.0%	29.8%	312,736,092	\$1.58	9,251,840	\$5.71	\$1,099,002,528	\$0
2012Q1	264,078,806	\$1,359,897,049	\$5.15	%6.96	-64.0%	30.3%	255,914,365	\$1.58	8,164,441	\$5.73	\$912,891,098	\$0
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%6.96	-64.0%	36.4%	275,016,957	\$1.58	8,773,871	\$6.00	\$1,001,427,304	\$0
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-64.0%	40.0%	277,165,345	\$1.58	8,842,411	\$6.16	\$1,010,904,656	\$0
2012Q4	296,550,930		\$5.45	%6.96	-64.0%	43.6%	287,382,559	\$1.58	9,168,371	\$6.32	\$1,111,388,426	\$0
2013Q1	248,813,414		\$5.53	%6.96	-64.0%	47.2%	241,120,928	\$1.58	7,692,486	\$6.48	\$952,575,360	\$0
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-64.0%	20.8%	275,798,740	\$1.58	8,798,812	\$6.64	\$1,147,649,996	\$0
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-64.0%	54.5%	254,553,059	\$1.58	8,121,011	\$6.79	\$1,068,336,104	\$0
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-64.0%	58.1%	249,263,559	\$1.58	7,952,260	\$6.95	\$1,073,387,602	\$0
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-64.0%	61.7%	162,649,373	\$1.58	5,189,006	\$7.11	\$718,188,358	\$0

Notes:

= C.1 Column 2. = C.1 Column 3. = C.1 Column 1.

= F.1 Column 11. = F.1 Column 12. = F.1 Column 13. = Column 1 * Column 4.

= Column 3 in 2008Q4 * (1 + Column 5).

= Column 1 * (1 - Column 4). = Column 3 in 2008Q4 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.

= Column 11 + Column 12.

Total

\$17,990,894,417

\$58,131,667

\$17,932,762,751

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	~	2	က	4	2	9	7	80	6	10	11	12	13
	Actua	Actual Nexium Purchases	ses	_	Yardsticks		Ш	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2009Q2	370,370,888	\$1,670,966,347	\$4.51										
2009Q3	358,376,852	\$1,616,747,386	\$4.51	64.6%	-40.8%	-2.0%	231,621,492	\$2.67	126,755,360	\$4.42	\$426,040,227	\$11,495,101	\$437,535,328
2009Q4	358,556,485	\$1,659,417,762	\$4.63	86.3%	-42.3%	-6.4%	309,274,622	\$2.60	49,281,863	\$4.22	\$625,692,179	\$19,867,351	\$645,559,530
2010Q1	337,613,503	\$1,606,829,125	\$4.76	88.7%	-63.4%	-1.6%	299,563,400	\$1.65	38,050,104	\$4.44	\$930,547,358	\$12,136,732	\$942,684,090
2010Q2	342,909,973	\$1,645,068,869	\$4.80	90.4%	-64.0%	2.4%	310,084,533	\$1.62	32,825,441	\$4.62	\$984,353,230	\$5,783,241	\$990,136,471
2010Q3	336,185,463	\$1,578,344,774	\$4.69	92.4%	-64.0%	-0.2%	310,572,587	\$1.62	25,612,877	\$4.50	\$954,064,170	\$4,961,458	\$959,025,628
2010Q4	340,358,296	\$1,643,480,690	\$4.83	93.6%	-64.0%	3.1%	318,585,009	\$1.62	21,773,286	\$4.65	\$1,021,309,398	\$3,887,784	\$1,025,197,181
2011Q1	303,971,918	\$1,526,485,048	\$5.02	94.6%	-64.0%	14.7%	287,488,920	\$1.62	16,482,998	\$5.18	\$977,141,873	\$0	\$977,141,873
2011Q2	319,678,317	\$1,611,187,175	\$5.04	95.4%	-64.0%	16.1%	304,945,437	\$1.62	14,732,880	\$5.24	\$1,042,033,782	\$0	\$1,042,033,782
2011Q3	312,062,380	\$1,520,652,211	\$4.87	%9.96	-64.0%	19.3%	301,528,075	\$1.62	10,534,305	\$5.38	\$979,966,266	\$0	\$979,966,266
2011Q4	321,987,932	\$1,641,033,084	\$5.10	%2'96	-64.0%	18.8%	311,252,097	\$1.62	10,735,835	\$5.36	\$1,081,182,746	\$0	\$1,081,182,746
2012Q1	264,078,806	\$1,359,897,049	\$5.15	97.3%	-64.0%	28.8%	256,974,566	\$1.62	7,104,240	\$5.81	\$906,266,304	\$0	\$906,266,304
2012Q2	283,790,829	\$1,482,450,406	\$5.22	97.1%	-64.0%	29.8%	275,636,526	\$1.62	8,154,303	\$5.86	\$992,520,887	\$0	\$992,520,887
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-64.0%	30.3%	277,165,345	\$1.62	8,842,411	\$5.88	\$999,680,274	\$0	\$999,680,274
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6.96	-64.0%	36.4%	287,382,559	\$1.62	9,168,371	\$6.15	\$1,099,750,277	\$0	\$1,099,750,277
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-64.0%	40.0%	241,120,928	\$1.62	7,692,486	\$6.32	\$942,810,671	\$0	\$942,810,671
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-64.0%	43.6%	275,798,740	\$1.62	8,798,812	\$6.48	\$1,136,480,958	\$0	\$1,136,480,958
2013Q3	262,674,071	\$1,518,078,347	\$2.78	%6.96	-64.0%	47.2%	254,553,059	\$1.62	8,121,011	\$6.64	\$1,058,027,453	\$0	\$1,058,027,453
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-64.0%	20.8%	249,263,559	\$1.62	7,952,260	\$6.81	\$1,063,293,161	\$0	\$1,063,293,161
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-64.0%	54.5%	162,649,373	\$1.62	5,189,006	\$6.97	\$711,601,537	\$0	\$711,601,537

Notes:

Total

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = F.1 Column 11. = F.1 Column 12. = F.1 Column 13.

= Column 3 in 2009Q2 * (1 + Column 5). = Column 1 * (1 - Column 4).

= Column 3 in 2009Q2 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

\$71,726,418 \$15,773,200,104

\$15,701,473,686

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= Column 3 in 2009Q4 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

= Column 3 in 2009Q4 * (1 + Column 5).

= C.1 Column 2. = C.1 Column 3. = F.1. Column 11. = F.1 Column 12. = F.1 Column 13. = Column 1 * Column 4.

= C.1 Column 1.

Notes:

Total

= Column 1 * (1 - Column 4).

Actual Nexium Purchases Average Quantity (Pills) Average Average Generic Aurage Aurage (S/Pill) 358,556,485 31,659,417,762 34,76 340,358,296 31,645,068,869 34,76 340,358,296 31,645,068,869 34,76 340,358,296 31,645,068,869 34,87 340,358,296 31,643,44,774 340,358,296 310,678,317 310,67,37 310,67,37 310,67,37 321,987,932 314,695,7049 35,16 264,078,806 31,459,897,049 35,16 286,077,757 31495,738,212 366,56 286,077,757 31495,738,212 366,56 286,50,330 316,611,381 35,53 369,98 266,572,583 315,18,078,347 316,611,381 35,53 36,98 266,574,071 31,518,078,347 35,89 36,98 266,774,77 31,518,078,347 35,89 36,98	Attachment F.4: Nexium Direct Purchase	t F.4: Nexi	ium Direct	Purchas	_	erchar	ges A	Overcharges Assuming Generic Launch in 2010Q1	Generi	c Launc	h in 2	010Q1		
Actual Nexium Purchases Quantity	Scellailo I.b	_	7	က	4	2	9	7	œ	6	10	1	12	13
Average Generic Cuantity Net Sales Price (Pills) Net Sales Price (Pills) Net Sales Price Generic (Pills) Net Sales Price (S/Pill) Share 337,613,503 \$1,606,829,125 \$4.63 337,613,503 \$1,506,829,125 \$4.69 88.3% 336,185,463 \$1,578,344,774 \$4.69 88.7% 340,358,269 \$1,578,480,690 \$5.02 92.4% 319,678,317 \$1,611,187,175 \$5.04 93.6% 319,678,327 \$1,611,187,175 \$5.04 93.6% 321,987,932 \$1,641,033,084 \$5.15 96.6% 264,078,806 \$1,359,897,049 \$5.15 96.6% 268,007,777 \$1,495,738,212 \$5.25 96.7% 226,5030 \$1,611,1381 \$5.45 97.1% 248,813,414 \$1,376,691,190 \$5.53 96.9% 264,597,553 \$1,634,614,615 \$5.78 96.9% 267,215,820 \$1,514,078,347 \$5.89 96.9%		Actu	ม Nexium Purcha	ses		Yardsticks			But-For Purchases	chases			Overcharges	
Quantity Net Sales (\$/Pills) Market 358,556,485 \$1,659,417,762 \$4,63 \$4,66 337,613,503 \$1,606,829,125 \$4,69 \$8.7% 342,909,973 \$1,606,829,125 \$4,69 \$8.7% 340,358,296 \$1,578,344,774 \$4,69 \$8.7% 340,358,296 \$1,643,480,690 \$4,83 \$0.4% 30,371,317 \$1,611,187,175 \$5.04 \$3.6% 312,062,380 \$1,520,652,211 \$4,87 \$4,6% 321,987,932 \$1,641,033,084 \$5.10 \$5.4% 264,078,806 \$1,359,897,049 \$5.15 \$6.6% 288,790,829 \$1,482,450,406 \$5.22 \$6.7% 286,007,757 \$1,495,738,212 \$5.23 \$97.3% 286,550,390 \$1,611,1381 \$5.45 \$96.7% 284,597,553 \$1,644,615 \$5.53 \$96.9% 284,597,553 \$1,644,614,615 \$5.53 \$96.9% 267,215,820 \$1,514,078,347 \$5.89 \$6.9% 267,215,820 <td></td> <td></td> <td></td> <td>Average</td> <td>Generic</td> <td>Generic</td> <td>Brand</td> <td></td> <td>Generic</td> <td></td> <td>Brand</td> <td></td> <td></td> <td></td>				Average	Generic	Generic	Brand		Generic		Brand			
(Pills) Net Sales (\$/Pill) Share 358,556,485 \$1,659,417,762 \$4.63 \$37,613,503 \$1,606,829,125 \$4.76 64.6% 342,909,973 \$1,606,829,125 \$4.80 86.3% 336,185,463 \$1,578,344,774 \$4.80 \$8.7% 340,358,296 \$1,643,480,690 \$4.83 90.4% 319,678,317 \$1,611,187,175 \$5.04 93.6% 312,062,380 \$1,520,652,211 \$4.87 94.6% 321,987,932 \$1,641,033,084 \$5.10 95.4% 264,078,806 \$1,359,897,049 \$5.15 96.6% 283,790,829 \$1,482,450,406 \$5.22 96.7% 286,509,390 \$1,611,1381 \$5.43 97.3% 286,509,30 \$1,611,1381 \$5.53 96.9% 264,575,553 \$1,644,615 \$5.53 96.9% 265,509,307,517 \$1,518,078,347 \$5.58 96.9% 267,215,820 \$1,514,653,791 \$5.89		Quantity		Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
358,556,485 \$1,659,417,762 \$4.63 337,613,503 \$1,606,829,125 \$4.63 342,909,973 \$1,645,068,869 \$4.80 342,909,973 \$1,645,068,869 \$4.80 340,358,296 \$1,543,774 \$4.69 303,971,918 \$1,526,485,048 \$5.02 319,678,317 \$1,611,187,175 \$5.04 93.6% 319,678,317 \$1,611,187,175 \$5.04 321,987,932 \$1,641,033,084 \$5.10 95.4% 264,078,806 \$1,359,897,049 \$5.15 96.6% 283,790,829 \$1,482,450,406 \$5.22 96.7% 286,007,757 \$1,495,738,212 \$5.23 97.3% 226,550,330 \$1,611,1381 \$5.45 97.1% 226,574,071 \$1,518,078,347 \$5.74 96.9% 267,274,5820 \$1,518,078,347 \$5.78 96.9%	Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
337,613,503 \$1,606,829,125 \$4.76 64.6% 342,909,973 \$1,645,068,869 \$4.80 86.3% 336,185,463 \$1,578,344,774 \$4.69 88.7% 340,358,296 \$1,643,480,690 \$4.83 90.4% 340,358,296 \$1,643,480,690 \$4.83 90.4% 319,678,317 \$1,611,187,175 \$5.04 93.6% 312,062,380 \$1,520,652,211 \$4.87 94.6% 321,987,932 \$1,641,033,084 \$5.15 96.6% 286,0778,806 \$1,359,897,049 \$5.15 96.6% 286,007,757 \$1,495,738,212 \$5.23 97.3% 296,550,930 \$1,482,450,406 \$5.23 97.3% 248,813,414 \$1,376,691,190 \$5.53 96.9% 26,57,215,820 \$1,464,615 \$5.74 96.9% 257,215,820 \$1,446,53,791 \$5.89 96.9%	2009Q4	358,556,485	\$1,659,417,762	\$4.63										
342,909,973 \$1,645,068,869 \$4.80 86.3% 336,185,463 \$1,578,344,774 \$4.69 88.7% 340,358,296 \$1,643,480,690 \$4.83 90.4% 303,971,918 \$1,526,485,048 \$5.02 92.4% 319,678,317 \$1,611,187,175 \$5.04 93.6% 312,062,380 \$1,520,652,211 \$4.87 94.6% 321,987,932 \$1,641,033,084 \$5.15 96.6% 264,078,806 \$1,359,897,049 \$5.15 96.6% 288,790,829 \$1,482,450,406 \$5.22 96.7% 296,550,930 \$1,611,1381 \$5.45 97.1% 248,813,414 \$1,376,691,190 \$5.53 96.9% 26,572,5820 \$1,518,078,347 \$5.89 96.9% 25,721,5820 \$1,518,078,347 \$5.89	2010Q1	337,613,503	\$1,606,829,125	\$4.76	64.6%	-40.8%	-2.0%	218,201,993	\$2.74	119,411,510	\$4.53	\$440,437,642	\$26,826,589	\$467,264,231
336,185,463 \$1,578,344,774 \$4.69 88.7% 340,358,296 \$1,643,480,690 \$4.83 90.4% 303,971,918 \$1,526,485,048 \$5.02 92.4% 319,678,317 \$1,611,187,175 \$5.04 93.6% 312,062,380 \$1,520,652,211 \$4.87 94.6% 31,2062,380 \$1,520,652,211 \$4.87 94.6% 321,887,932 \$1,641,033,084 \$5.15 96.6% 286,0778,806 \$1,359,897,049 \$5.15 96.6% 286,007,757 \$1,495,738,212 \$5.22 96.7% 226,550,930 \$1,611,1381 \$5.45 97.1% 226,550,930 \$1,614,615 \$5.45 96.9% 26,572,5820 \$1,518,078,347 \$5.89 96.9% 25,7215,820 \$1,518,078,347 \$5.89	2010Q2	342,909,973	\$1,645,068,869	\$4.80	86.3%	-42.3%	-6.4%	295,778,648	\$2.67	47,131,325	\$4.33	\$628,584,870	\$21,841,394	\$650,426,264
340,358,296 \$1,643,480,690 \$4.83 90.4% 303,971,918 \$1,526,485,048 \$5.02 92.4% 319,678,317 \$1,611,187,175 \$5.04 93.6% 312,062,380 \$1,520,652,211 \$4.87 94.6% 312,062,380 \$1,520,652,211 \$4.87 94.6% 264,078,806 \$1,359,897,049 \$5.15 96.6% 288,790,829 \$1,482,450,406 \$5.22 96.7% 286,007,757 \$1,495,738,212 \$5.23 97.3% 296,550,930 \$1,611,1381 \$5.45 97.1% 248,813,414 \$1,376,691,190 \$5.53 96.9% 267,745,71 \$1,518,078,347 \$5.89 96.9% 257,215,820 \$1,514,653,791 \$5.89	2010Q3	336,185,463	\$1,578,344,774	\$4.69	88.7%	-63.4%	-1.6%	298,296,304	\$1.70	37,889,159	\$4.56	\$894,640,687	\$5,298,612	\$899,939,299
303,971,918 \$1,526,485,048 \$5.02 92.4% 319,678,317 \$1,611,187,175 \$5.04 93.6% 312,062,380 \$1,520,652,211 \$4.87 94.6% 321,987,932 \$1,641,033,084 \$5.10 95.4% 264,078,806 \$1,359,897,049 \$5.15 96.6% 288,790,829 \$1,482,450,406 \$5.22 96.7% 286,007,757 \$1,495,738,212 \$5.23 97.3% 296,550,930 \$1,611,1381 \$5.45 97.1% 248,813,414 \$1,376,691,190 \$5.53 96.9% 267,721,5820 \$1,518,078,347 \$5.78 96.9% 257,215,820 \$1,518,078,347 \$5.89 96.9%	2010Q4	340,358,296	\$1,643,480,690	\$4.83	90.4%	-64.0%	2.4%	307,777,117	\$1.66	32,581,178	\$4.74	\$973,769,421	\$2,873,808	\$976,643,228
319,678,317 \$1,611,187,175 \$5.04 93.6% 312,062,380 \$1,520,652,211 \$4.87 94.6% 321,987,932 \$1,641,033,084 \$5.10 95.4% 264,078,806 \$1,359,897,049 \$5.15 96.6% 283,790,829 \$1,482,450,406 \$5.22 96.7% 286,007,757 \$1,495,738,212 \$5.23 97.3% 296,550,930 \$1,614,11,381 \$5.45 97.1% 248,813,414 \$1,376,691,190 \$5.53 96.9% 267,745,747 \$1,518,078,347 \$5.78 96.9% 257,275,820 \$1,514,653,791 \$5.89 96.9%	2011Q1	303,971,918	\$1,526,485,048	\$5.02	92.4%	-64.0%	-0.2%	280,813,286	\$1.66	23,158,632	\$4.62	\$942,689,251	\$9,366,831	\$952,056,082
312,062,380 \$1,520,652,211 \$4.87 94.6% 321,987,932 \$1,641,033,084 \$5.10 95.4% 264,078,806 \$1,359,897,049 \$5.15 96.6% 283,790,829 \$1,482,450,406 \$5.22 96.7% 286,007,757 \$1,495,738,212 \$5.23 97.3% 296,550,930 \$1,616,111,381 \$5.45 97.1% 248,813,414 \$1,376,691,190 \$5.53 96.9% 262,674,071 \$1,518,078,347 \$5.74 96.9% 257,272,15,820 \$1.514,653,791 \$5.89 96.9%	2011Q2	319,678,317	\$1,611,187,175	\$5.04	93.6%	-64.0%	3.1%	299,227,963	\$1.66	20,450,354	\$4.77	\$1,009,962,237	\$5,519,185	\$1,015,481,422
321,987,932 \$1,641,033,084 \$5.10 95.4% 264,078,806 \$1,359,897,049 \$5.15 96.6% 283,790,829 \$1,482,450,406 \$5.22 96.7% 286,007,757 \$1,495,738,212 \$5.23 97.3% 296,550,330 \$1,616,111,381 \$5.45 97.1% 248,813,414 \$1,376,691,190 \$5.53 96.9% 262,674,071 \$1,518,078,347 \$5.74 96.9% 257,215,820 \$1,514,653,791 \$5.89 96.9%	2011Q3	312,062,380	\$1,520,652,211	\$4.87	94.6%	-64.0%	14.7%	295,140,673	\$1.66	16,921,707	\$5.31	\$946,844,143	\$0	\$946,844,143
264,078,806 \$1,359,897,049 \$5.15 96.6% 283,790,829 \$1,482,450,406 \$5.22 96.7% 286,007,757 \$1,495,738,212 \$5.23 97.3% 296,550,930 \$1,616,111,381 \$5.45 97.1% 248,813,414 \$1,376,691,190 \$5.53 96.9% 284,597,553 \$1,634,615 \$5.74 96.9% 262,674,071 \$1,518,078,347 \$5.89 96.9% 257,215,820 \$1,514,653,791 \$5.89 96.9%	2011Q4	321,987,932	\$1,641,033,084	\$5.10	95.4%	-64.0%	16.1%	307,148,610	\$1.66	14,839,322	\$5.37	\$1,054,062,578	\$0	\$1,054,062,578
283,790,829 \$1,482,450,406 \$5.22 96.7% 286,007,757 \$1,495,738,212 \$5.23 97.3% 296,550,930 \$1,616,111,381 \$5.45 97.1% 248,813,414 \$1,376,691,190 \$5.53 96.9% 284,597,553 \$1,634,615 \$5.74 96.9% 262,674,071 \$1,514,078,347 \$5.89 96.9% 257,215,820 \$1,514,653,791 \$5.89 96.9%	2012Q1	264,078,806	\$1,359,897,049	\$5.15	%9.96	-64.0%	19.3%	255,164,285	\$1.66	8,914,521	\$5.52	\$889,193,521	\$0	\$889,193,521
286,007,757 \$1,495,738,212 \$5.23 97.3% - 296,550,930 \$1,616,111,381 \$5.45 97.1% - 248,813,414 \$1,376,691,190 \$5.53 96.9% - 284,597,553 \$1,634,614,615 \$5.74 96.9% - 262,674,071 \$1,518,078,347 \$5.89 96.9% - 257,215,820 \$1,514,653,791 \$5.89 96.9% - 31,514,653,791	2012Q2	283,790,829	\$1,482,450,406	\$5.22	%2'96	-64.0%	18.8%	274,328,575	\$1.66	9,462,254	\$5.50	\$976,319,902	\$0	\$976,319,902
296,550,930 \$1,616,111,381 \$5.45 97.1% - 248,813,414 \$1,376,691,190 \$5.53 96.9% - 284,597,553 \$1,634,614,615 \$5.74 96.9% - 262,674,071 \$1,518,078,347 \$5.78 96.9% - 257,215,820 \$1,514,653,791 \$5.89 96.9% - 31,514,653,791	2012Q3	286,007,757	\$1,495,738,212	\$5.23	97.3%	-64.0%	28.8%	278,313,585	\$1.66	7,694,172	\$5.96	\$992,163,544	\$0	\$992,163,544
248,813,414 \$1,376,691,190 \$5.53 96.9% - 284,597,553 \$1,634,614,615 \$5.74 96.9% - 262,674,071 \$1,518,078,347 \$5.78 96.9% - 257,215,820 \$1,514,653,791 \$5.89 96.9% -	2012Q4	296,550,930	\$1,616,111,381	\$5.45	97.1%	-64.0%	29.8%	288,029,984	\$1.66	8,520,946	\$6.01	\$1,090,162,625	\$0	\$1,090,162,625
284,597,553 \$1,634,614,615 \$5.74 96.9% - 262,674,071 \$1,518,078,347 \$5.78 96.9% - 257,215,820 \$1,514,653,791 \$5.89 96.9% -	2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-64.0%	30.3%	241,120,928	\$1.66	7,692,486	\$6.03	\$932,710,423	\$0	\$932,710,423
262,674,071 \$1,518,078,347 \$5.78 96.9% - 257.215,820 \$1.514,653.791 \$5.89 96.9% -	2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-64.0%	36.4%	275,798,740	\$1.66	8,798,812	\$6.31	\$1,124,928,100	\$0	\$1,124,928,100
- \$5.215.820 \$1.514.653.791 \$5.89 96.9%	2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-64.0%	40.0%	254,553,059	\$1.66	8,121,011	\$6.48	\$1,047,364,551	\$0	\$1,047,364,551
	2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-64.0%	43.6%	249,263,559	\$1.66	7,952,260	\$6.65	\$1,052,851,828	\$0	\$1,052,851,828
2014Q1 167,838,379 \$1,006,690,517 \$6.00 96.9% -64.0%	2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-64.0%	47.2%	162,649,373	\$1.66	5,189,006	\$6.81	\$704,788,362	\$0	\$704,788,362

\$35,054,992 \$13,438,746,834

\$13,403,691,842

Privileged and Confidential: Subject to Court Order

Attachment F.5: Nexium Direct Purchase Scenario 1.8	t F.5: Nexi	um Direct	Purchas	er Ove	erchar	ges A	r Overcharges Assuming Generic Launch in 2010Q3	Gener	ic Launcl	h in 2(010Q3		
	~	2	က	4	2	9	7	80	6	10	1	12	13
	Actual	Actual Nexium Purchases	es		Yardsticks			But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
201002	342,909,973	\$1,645,068,869	\$4.80										
2010Q3	336,185,463	\$1,578,344,774	\$4.69	64.6%	-40.8%	-2.0%	217,279,041	\$2.84	118,906,423	\$4.70	\$402,768,697	\$0	\$402,768,697
2010Q4	340,358,296	\$1,643,480,690	\$4.83	86.3%	-42.3%	-6.4%	293,577,687	\$2.77	46,780,609	\$4.49	\$604,393,916	\$15,725,221	\$620,119,137
2011Q1	303,971,918	\$1,526,485,048	\$5.02	88.7%	-63.4%	-1.6%	269,713,327	\$1.76	34,258,591	\$4.72	\$880,360,552	\$10,281,792	\$890,642,344
2011Q2	319,678,317	\$1,611,187,175	\$5.04	90.4%	-64.0%	2.4%	289,076,753	\$1.73	30,601,564	\$4.91	\$958,091,861	\$3,859,237	\$961,951,098
2011Q3	312,062,380	\$1,520,652,211	\$4.87	92.4%	-64.0%	-0.2%	288,287,363	\$1.73	23,775,018	\$4.79	\$907,298,304	\$2,059,955	\$909,358,259
2011Q4	321,987,932	\$1,641,033,084	\$5.10	93.6%	-64.0%	3.1%	301,389,828	\$1.73	20,598,104	\$4.94	\$1,015,942,050	\$3,128,786	\$1,019,070,836
2012Q1	264,078,806	\$1,359,897,049	\$5.15	94.6%	-64.0%	14.7%	249,759,027	\$1.73	14,319,779	\$5.50	\$855,144,458	\$0	\$855,144,458
2012Q2	283,790,829	\$1,482,450,406	\$5.22	95.4%	-64.0%	16.1%	270,711,880	\$1.73	13,078,949	\$5.57	\$946,959,161	\$0	\$946,959,161
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%9.96	-64.0%	19.3%	276,352,979	\$1.73	9,654,778	\$5.73	\$968,341,426	\$0	\$968,341,426
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%2'96	-64.0%	18.8%	286,663,224	\$1.73	9,887,706	\$5.70	\$1,067,528,856	\$0	\$1,067,528,856
2013Q1	248,813,414	\$1,376,691,190	\$5.53	97.3%	-64.0%	28.8%	242,119,843	\$1.73	6,693,571	\$6.18	\$921,826,870	\$0	\$921,826,870
2013Q2	284,597,553	\$1,634,614,615	\$5.74	97.1%	-64.0%	29.8%	276,420,070	\$1.73	8,177,483	\$6.23	\$1,110,625,562	\$0	\$1,110,625,562
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-64.0%	30.3%	254,553,059	\$1.73	8,121,011	\$6.25	\$1,031,859,660	\$0	\$1,031,859,660
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-64.0%	36.4%	249,263,559	\$1.73	7,952,260	\$6.54	\$1,037,669,122	\$0	\$1,037,669,122
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-64.0%	40.0%	162,649,373	\$1.73	5,189,006	\$6.72	\$694,881,348	\$0	\$694,881,348

Notes:

Total

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = F.1 Column 11. = F.1 Column 12. = F.1 Column 13.

= Column 1 * Column 4.

= Column 3 in 2010Q2 * (1 + Column 5).
= Column 1 * (1 - Column 4).
= Column 3 in 2010Q2 * (1 + Column 6).
= Column 7 * (Column 3 - Column 8).
= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

\$11,415,509,089 \$74,093,611 \$11,489,602,699

Total

Privileged and Confidential: Subject to Court Order

Actual Nexium Purchases Auantity Quantity Aug.358,296 \$1,643,480,690 \$4.83 303,971,918 \$1,526,485,048 \$5.02 \$12,062,380 \$1,520,485,048 \$5.02 \$12,062,380 \$1,520,652,211 \$4.87 \$21,987,932 \$1,641,033,084 \$5.16 \$283,790,829 \$1,482,450,406 \$286,007,757 \$1,495,738,212 \$286,007,757 \$1,495,738,212 \$286,007,757 \$1,495,738,212 \$286,007,757 \$1,495,738,212 \$286,550,930 \$1,6111,381 \$5.53 \$96.6% \$284,913,414 \$1,376,691,190 \$5.53 \$96.7%	Attachment Scenario 1.B	t F.6: Nexi	Attachment F.6: Nexium Direct Purchaser Overcharges Assuming Generic Launch in 2011Q1	Purchas	er Ove	erchar	ges A	ssuming	Gener	ic Launcl	וו ר 10 (011Q1		
Actual Nexium Purchases Average Quantity Quantity Average Quantity Average Average Average Average Average Anarket (\$/PIII\$) Authority Authority Authority Authority Authority Authority Authority Average Average Average Anarket (\$/PIII) Share (\$/PIII) Share 340,358,296 \$1,526,485,048 \$5.02 \$12,062,380 \$1,520,662,211 \$4.87 \$8.7% \$21,987,932 \$1,641,033,084 \$5.15 \$24,078,806 \$1,359,897,049 \$5.15 \$28,790,829 \$1,482,450,406 \$5.22 \$3.6% \$286,007,757 \$1,495,738,212 \$286,007,757 \$1,496,738,212 \$24,48,13,144 \$1,376,691,190 \$5.53 \$24,666,284,597,553 \$1,634,614,615 \$6.7% \$28,787,073,073,073,073,073,073,073,073,073,07		~	2	က	4	2	9	7	œ	6	10	1	12	13
Average Generic Cuantity Net Sales Price Market (Pills) Net Sales Price Market (\$\pi\) (\$4.358,296 \$1,643,480,690 \$4.83 \$30,971,918 \$1,526,485,048 \$5.02 \$64.6% \$312,062,380 \$1,520,652,211 \$4.87 \$81.7% \$21,987,932 \$1,641,033,084 \$5.15 \$92.4% \$264,078,806 \$1,359,897,049 \$5.15 \$92.4% \$283,790,829 \$1,482,450,406 \$5.22 \$93.6% \$286,007,757 \$1,495,738,212 \$5.23 \$94.6% \$296,550,390 \$1,611,1381 \$5.53 \$94.6% \$248,813,414 \$1,376,691,190 \$5.53 \$96.6% \$286,807,553 \$1,634,614,615 \$5.73 \$96.73 \$26,573,572 \$1,634,614,615 \$5.73 \$97.73 \$26,573,572 \$1,634,614,615 \$5.73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73 \$27.39,73		Actus	al Nexium Purcha	ses		Yardsticks		П	But-For Purchases	rchases			Overcharges	
Quantity Sales Price Market (Pills) Net Sales (\$/Pill) Share 340,358,296 \$1,643,480,690 \$4.83 64.6% 319,678,317 \$1,526,485,048 \$5.02 64.6% 312,062,380 \$1,526,485,048 \$5.02 64.6% 321,987,932 \$1,641,033,084 \$5.10 90.4% 264,078,806 \$1,359,897,049 \$5.15 92.4% 286,007,757 \$1,482,450,406 \$5.22 93.6% 286,007,757 \$1,495,738,212 \$5.23 94.6% 2296,550,30 \$1,616,111,381 \$5.53 96.6% 248,813,414 \$1,376,691,190 \$5.53 96.6% 284,813,414 \$1,376,691,190 \$5.53 96.7% 282,570,753 \$1,634,614,615 \$5.73 96.7% 282,270,754 \$1,878,347 \$6.78 96.7%				Average	Generic	Generic	Brand		Generic		Brand			
(Pills) Net Sales (\$/Pill) Share 340,358,296 \$1,643,480,690 \$4.83 64.6% 319,678,317 \$1,526,485,048 \$5.02 64.6% 319,678,317 \$1,611,187,175 \$5.04 86.3% 321,987,332 \$1,641,033,084 \$5.10 90.4% 264,078,806 \$1,359,897,049 \$5.15 92.4% 283,790,829 \$1,482,450,406 \$5.22 93.6% 286,007,757 \$1,495,738,212 \$5.23 94.6% 296,550,930 \$1,616,111,381 \$5.53 96.6% 284,813,414 \$1,376,691,190 \$5.53 96.6% 284,597,553 \$1,634,614,615 \$5.53 96.7% 262,674,07,517 \$1,807,8347 \$6.78 97.3%		Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
340,358,296 \$1,643,480,690 \$4.83 303,971,918 \$1,526,485,048 \$5.02 64.6% 319,678,317 \$1,611,187,175 \$5.04 86.3% 312,062,380 \$1,520,652,211 \$4.87 88.7% 321,987,932 \$1,641,033,084 \$5.10 90.4% 264,078,806 \$1,359,897,049 \$5.15 92.4% 283,790,829 \$1,482,450,406 \$5.22 93.6% 286,007,757 \$1,495,738,212 \$5.23 94.6% 296,550,930 \$1,616,111,381 \$5.45 95.4% 248,813,414 \$1,376,691,190 \$5.53 96.6% 264,597,553 \$1,634,614,615 \$5.74 96.7%	uarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
20.377.918 \$1,526,485,048 \$5.02 64.6% 319,77.918 \$1,526,485,048 \$5.02 64.6% 319,77.918 \$1,526,485,048 \$5.02 64.6% 312,062,380 \$1,520,652,211 \$4.87 88.7% 321,987,932 \$1,641,033,084 \$5.10 90.4% 264,078,806 \$1,359,897,049 \$5.15 92.4% 283,790,829 \$1,482,450,406 \$5.22 93.6% 286,007,757 \$1,495,738,212 \$5.23 94.6% 296,550,930 \$1,611,1381 \$5.45 95.4% 248,813,414 \$1,376,691,190 \$5.53 96.6% 284,597,553 \$1,634,614,615 \$5.78 97.9% 32.9%	2005	340 358 206	¢1 6/3 /80 690	¢4 83										
319,678,317 \$1,611,187,175 \$5.04 86.3% 312,062,380 \$1,520,652,211 \$4.87 88.7% 321,987,932 \$1,641,033,084 \$5.10 90.4% 264,078,806 \$1,359,897,049 \$5.15 92.4% 283,790,829 \$1,482,450,406 \$5.22 93.6% 286,007,757 \$1,495,738,212 \$5.23 94.6% 296,550,930 \$1,611,1381 \$5.45 95.4% 248,813,414 \$1,376,691,190 \$5.53 96.6% 284,897,553 \$1,634,614,615 \$5.78 96.6%	1101	303.971.918		\$5.02	64.6%	-40.8%	-2.0%	196.459.199	\$2.86	107.512.719	\$4.73	\$424.762.361	\$31,232,157	\$455,994,518
312,062,380 \$1,520,652,211 \$4.87 88.7% 321,987,932 \$1,641,033,084 \$5.10 90.4% 264,078,806 \$1,359,897,049 \$5.15 92.4% 283,790,829 \$1,482,450,406 \$5.22 93.6% 286,007,757 \$1,495,738,212 \$5.23 94.6% 296,550,930 \$1,616,111,381 \$5.45 95.4% 248,813,414 \$1,376,691,190 \$5.53 96.6% 284,897,553 \$1,634,614,615 \$5.74 96.7% 262,674,077 \$1,618,078,347 \$5.74 96.7%	11102	319,678,317		\$5.04	86.3%	-42.3%	-6.4%	275,740,071	\$2.79	43,938,246	\$4.52	\$620,965,211	\$22,768,164	\$643,733,375
321,987,932 \$1,641,033,084 \$5.10 90.4% 264,078,806 \$1,359,897,049 \$5.15 92.4% 283,790,829 \$1,482,450,406 \$5.22 93.6% 286,007,757 \$1,495,738,212 \$5.23 94.6% 296,550,930 \$1,616,111,381 \$5.45 95.4% 248,813,414 \$1,376,691,190 \$5.53 96.6% 284,897,553 \$1,634,614,615 \$5.78 96.6% 262,674,077 \$1,618,078,347 \$5.78 97.3%	11103	312,062,380	\$1,520,652,211	\$4.87	88.7%	-63.4%	-1.6%	276,891,969	\$1.77	35,170,412	\$4.75	\$859,391,503	\$4,235,636	\$863,627,138
264,078,806 \$1,359,897,049 \$5.15 92.4% 283,790,829 \$1,482,450,406 \$5.22 93.6% 286,007,757 \$1,495,738,212 \$5.23 94.6% 296,550,930 \$1,616,111,381 \$5.45 95.4% 248,813,414 \$1,376,691,190 \$5.53 96.6% 284,897,553 \$1,634,615 \$5.3 96.6% 284,597,74 \$1,476,478,47 \$5.74 96.7%	11104	321,987,932	\$1,641,033,084	\$5.10	90.4%	-64.0%	2.4%	291,165,277	\$1.74	30,822,655	\$4.95	\$978,198,266	\$4,641,669	\$982,839,935
283,790,829 \$1,482,450,406 \$5.22 93.6% 286,007,757 \$1,495,738,212 \$5.23 94.6% 296,550,930 \$1,616,111,381 \$5.45 95.4% 248,813,414 \$1,376,691,190 \$5.53 96.6% 284,897,553 \$1,634,614,615 \$5.78 96.7% 262,674,077 \$4,478,47 \$5.78 97.3%	112Q1	264,078,806	\$1,359,897,049	\$5.15	92.4%	-64.0%	-0.2%	243,959,501	\$1.74	20,119,305	\$4.82	\$832,540,801	\$6,681,486	\$839,222,287
286,007,757 \$1,495,738,212 \$5.23 94.6% 296,550,930 \$1,616,111,381 \$5.45 95.4% 248,813,414 \$1,376,691,190 \$5.53 96.6% 284,597,553 \$1,634,614,615 \$5.74 96.7% 26.2674 071 \$1,634,615 \$5.74 96.7%	112Q2	283,790,829	\$1,482,450,406	\$5.22	93.6%	-64.0%	3.1%	265,636,257	\$1.74	18,154,572	\$4.98	\$926,213,615	\$4,480,767	\$930,694,382
296,550,930 \$1,616,111,381 \$5.45 95.4% 248,813,414 \$1,376,691,190 \$5.53 96.6% 284,597,553 \$1,634,614,615 \$5.74 96.7% 26.2674,071 \$1,634,617,817,817,817,817,817,817,817,817,817,8	112Q3	286,007,757		\$5.23	94.6%	-64.0%	14.7%	270,498,872	\$1.74	15,508,885	\$5.54	\$944,783,027	\$0	\$944,783,027
284,597,553 \$1,634,614,615 \$5.74 96.7% 26.2674 071 \$1.548,0178,347 \$5.78 07.3%	112Q4	296,550,930	\$1,616,111,381	\$5.45	95.4%	-64.0%	16.1%	282,883,912	\$1.74	13,667,018	\$5.61	\$1,050,269,720	\$0	\$1,050,269,720
284,597,553 \$1,634,614,615 \$5.74 96.7% 262,674,071 \$1,518,078,347 \$5.78 Q7.3%	113Q1	248,813,414	\$1,376,691,190	\$5.53	%9.96	-64.0%	19.3%	240,414,207	\$1.74	8,399,207	\$5.76	\$912,626,108	\$0	\$912,626,108
262 674 071 \$1 518 078 347 \$5 78 97 3%	113Q2	284,597,553	\$1,634,614,615	\$5.74	%2'96	-64.0%	18.8%	275,108,401	\$1.74	9,489,152	\$5.74	\$1,102,257,925	\$53,733	\$1,102,311,659
0,000	2013Q3	262,674,071	\$1,518,078,347	\$5.78	97.3%	-64.0%	28.8%	255,607,621	\$1.74	7,066,450	\$6.22	\$1,033,256,509	\$0	\$1,033,256,509
2013Q4 \$5.89 \$1,514,653,791 \$5.89 97.1%	113Q4	257,215,820	\$1,514,653,791	\$5.89	97.1%	-64.0%	29.8%	249,825,109	\$1.74	7,390,710	\$6.27	\$1,037,193,993	\$0	\$1,037,193,993
2014Q1 167,838,379 \$1,006,690,517 \$6.00 96.9% -	114Q1	167,838,379		\$6.00	%6.96	-64.0%	30.3%	162,649,373	\$1.74	5,189,006	\$6.29	\$693,050,049	\$0	\$693,050,049

Notes:

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = F.1 Column 11. = F.1 Column 12. = F.1 Column 13.

= Column 1 * Column 4. = Column 3 in 2010Q4 * (1 + Column 5).

= Column 1 * (1 - Column 4). - 7 E 4 G 9 F 8 6 7 F 7 E

= Column 3 in 2010Q4 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

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Scenario 1.B	
	Scenario 1.B

Scenario 1.B													
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	Actua	Actual Nexium Purchases	ses		Yardsticks			But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
	!		1										
2011Q2	319,678,317	\$1,611,187,175	\$5.04										
2011Q3	312,062,380	\$1,520,652,211	\$4.87	64.6%	-40.8%	-2.0%	201,688,122	\$2.98	110,374,259	\$4.94	\$380,794,556	\$0	\$380,794,556
2011Q4	321,987,932	\$1,641,033,084	\$5.10	86.3%	-42.3%	-6.4%	277,732,241	\$2.91	44,255,691	\$4.72	\$607,262,933	\$16,675,898	\$623,938,831
2012Q1	264,078,806	\$1,359,897,049	\$5.15	88.7%	-63.4%	-1.6%	234,316,294	\$1.85	29,762,512	\$4.96	\$773,934,272	\$5,627,964	\$779,562,235
2012Q2	283,790,829	\$1,482,450,406	\$5.22	90.4%	-64.0%	2.4%	256,624,634	\$1.81	27,166,194	\$5.16	\$875,281,964	\$1,664,926	\$876,946,890
2012Q3	286,007,757	\$1,495,738,212	\$5.23	92.4%	-64.0%	-0.2%	264,217,756	\$1.81	21,790,001	\$5.03	\$902,757,270	\$4,387,604	\$907,144,874
2012Q4	296,550,930	\$1,616,111,381	\$5.45	93.6%	-64.0%	3.1%	277,580,074	\$1.81	18,970,856	\$5.19	\$1,009,474,718	\$4,836,130	\$1,014,310,848
2013Q1	248,813,414	\$1,376,691,190	\$5.53	94.6%	-64.0%	14.7%	235,321,407	\$1.81	13,492,007	\$5.78	\$875,402,989	\$0	\$875,402,989
2013Q2	284,597,553	\$1,634,614,615	\$5.74	95.4%	-64.0%	16.1%	271,481,425	\$1.81	13,116,128	\$5.85	\$1,067,086,309	\$0	\$1,067,086,309
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%9.96	-64.0%	19.3%	253,806,969	\$1.81	8,867,102	\$6.02	\$1,006,681,696	\$0	\$1,006,681,696
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%2'96	-64.0%	18.8%	248,639,639	\$1.81	8,576,180	\$5.99	\$1,013,369,209	\$0	\$1,013,369,209
2014Q1	167,838,379	\$1,006,690,517	\$6.00	97.3%	-64.0%	28.8%	163,323,196	\$1.81	4,515,183	\$6.49	\$683,504,395	\$0	\$683,504,395
Total											\$9,195,550,312	\$33,192,521	\$9,228,742,833

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = F.1 Column 11. = F.1 Column 12. = F.1 Column 13.

Notes:

= Column 1 * Column 4. = Column 3 in 2011Q2 * (1 + Column 5).

= Column 1 * (1 - Column 4). = Column 3 in 2011Q2 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

\$7,287,940,745 \$62,968,111 \$7,350,908,857

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	Actua	Actual Nexium Purchases	ses		Yardsticks		E	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
201104	321 987 932	321 987 932 \$1 641 033 084	\$5.10										
2012Q1	264,078,806	\$1,359,897,049	\$5.15	64.6%	-40.8%	-2.0%	170.675.998	\$3.02	93.402.807	\$4.99	\$363.749.523	\$14,552,409	\$378,301,932
2012Q2	283,790,829	\$1,482,450,406	\$5.22	86.3%	-42.3%	-6.4%		\$2.94	39,005,683	\$4.77	\$558,363,521	\$17,592,982	\$575,956,504
2012Q3	286,007,757	\$1,495,738,212	\$5.23	88.7%	-63.4%	-1.6%	253,773,783	\$1.87	32,233,974	\$5.02	\$853,277,481	\$6,884,256	\$860,161,737
2012Q4	296,550,930	\$1,616,111,381	\$5.45	90.4%	-64.0%	2.4%	268,163,261	\$1.83	28,387,669	\$5.22	\$969,774,515	\$6,509,916	\$976,284,431
2013Q1	248,813,414	\$1,376,691,190	\$5.53	92.4%	-64.0%	-0.2%	229,857,129	\$1.83	18,956,285	\$5.08	\$850,400,699	\$8,497,407	\$858,898,105
2013Q2	284,597,553	\$1,634,614,615	\$5.74	93.6%	-64.0%	3.1%	266,391,374	\$1.83	18,206,179	\$5.25	\$1,041,661,260	\$8,931,142	\$1,050,592,402
2013Q3	262,674,071	\$1,518,078,347	\$5.78	94.6%	-64.0%	14.7%	248,430,464	\$1.83	14,243,606	\$5.85	\$980,303,951	0\$	\$980,303,951
2013Q4	257,215,820	\$1,514,653,791	\$5.89	95.4%	-64.0%	16.1%	245,361,622	\$1.83	11,854,197	\$5.92	\$995,018,798	\$0	\$995,018,798
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%9.96	-64.0%	19.3%	162,172,651	\$1.83	5,665,728	\$6.08	\$675,390,997	\$0	\$675,390,997

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = F.1 Column 11. = F.1 Column 12. = F.1 Column 13. = Column 1 * Column 4. = Column 3 in 2011Q4 * (1 + Column 5).

Notes:

Total

= Column 1 * (1 - Column 4). = Column 3 in 2011Q4 * (1 + Column 6).

Attachment G

Attachment G.1.a: Yardstick Calculations for Scenario 1.C Starting in 2009Q1

		_																											
14			Price Number of	Generics		2	2	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
13	dsticks	Brand	Price	Change		-5.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	20.8%	54.5%	58.1%	61.7%	65.3%	68.9%	72.5%
12	Final Yardsticks	Generic	Price	Change		-40.8%	-42.3%	-63.4%	-64.0%	-64.0%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%
11		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6.96	%6:96	%6.96	%6:96
10			Price Number of	Generics		3	က	က	က	4	4	4	4	4	4	4	2	2											
6	Inputs	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
8	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
7		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96											
9			Price	(\$/EU)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											
5	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
4	La		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
3			Price	(\$/EU)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											
2	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
1			Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
'				Quarter	0	_	2	3	4	2	9	7	8	6	10	7	12	13	14	15	16	17	18	19	20	21	22	23	24

Source: IMS NSP data. Excludes oral suspension and IV forms. = Column 2 / Column 1. Notes: 1-2

Source: IMS NSP data. Excludes oral suspension and IV forms.

= Column 5 / Column 4.

= Column 4 / (Column 1 + Column 4).

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 .

Periods 1-13, = Column 7. Period 14 onward, = Column 7 in Period 13. Number of significant generic manufacturers.

Periods 1 and 2, = Column 8 * (2/3); Periods 3-4, = Column 8; Periods 5-6, = Column 8; Period 4; Periods 7-13, = Column 8 starting in Period 15; Period 14 onward, = Column 8 in Period 11.

Period 1-13, = Column 9. Thereafter, based on the linear trend from the previous 8 quarters of available data. Number of generics in the but-for scenario.

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Period 1-13, = Column 9. Thereafter, based on the linear trend from the previous 8 quarters of available data. Number of generics in the but-for scenario. Periods 1 and 2, = Column 8 * (2/3); Periods 3-11, = Column 8; Period 12 onward, = Column 8 in Period 11.

Periods 1-13, = Column 7. Period 14 onward, = Column 7 in Period 13.

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 . Number of significant generic manufacturers.

= Column 5 / Column 4. = Column 4 / (Column 1 + Column 4).

Source: IMS NSP data. Excludes oral suspension and IV forms. Source: IMS NSP data. Excludes oral suspension and IV forms.

= Column 2 / Column 1.

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Attachment

14			Price Number of	Generics		2	2	က	က	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
13	Isticks	Brand	Price I	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	20.8%	54.5%	58.1%	61.7%	65.3%	68.9%	72.5%
12	Final Yardsticks	Generic	Price	Change		-40.8%	-42.3%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%
11		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96	%6:96	%6:96	%6:96	%6.96	%6:96	%6:96	%6:96	%6:96	%6:96	%6:96	%6:96
10			Price Number of	Generics		က	က	က	ဂ	4	4	4	4	4	4	4	2	2											
6	Inputs	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
8	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
7		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96											
9			Price	(\$/EU)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											
5	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
4	La		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
3			Price	(\$/EN)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											
2	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
_	-		Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
L				Quarter	0	_	2	3	4	2	9	7		6	10	7	12	13	14	15	16	17	18	19	20	21	52	23	24

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		_			_																								
14			Price Number of	Generics		2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
13	sticks	Brand	Price N	Change		-5.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%	36.4%	40.0%	43.6%	47.2%	20.8%	54.5%	58.1%	61.7%	65.3%	68.9%	72.5%
12	Final Yardsticks	Generic	Price	Change		-40.8%	-42.3%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%	-75.9%
11		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96	%6:96	%6.96	%6.96	%6.96	%6.96	%6:96	%6.96	%6.96	%6.96	%6.96	%6.96
10			Number of	Generics		က	က	8	က	4	4	4	4	4	4	4	2	2											
6	Inputs	Brand	Price N	Change		-2.0%	-6.4%	-1.6%	2.4%	-0.2%	3.1%	14.7%	16.1%	19.3%	18.8%	28.8%	29.8%	30.3%											
80	Yardsticks Inputs	Generic	Price	Change		-61.2%	-63.4%	-63.4%	-64.0%	-64.6%	-66.2%	-68.5%	-71.5%	-71.9%	-71.4%	-75.9%	-74.4%	-74.5%											
7		Generic	Market	Share		64.6%	86.3%	88.7%	90.4%	92.4%	93.6%	94.6%	95.4%	%9.96	%2'96	97.3%	97.1%	%6.96											
9			Price	(\$/EU)		\$1.81	\$1.70	\$1.70	\$1.67	\$1.64	\$1.57	\$1.46	\$1.32	\$1.31	\$1.33	\$1.12	\$1.19	\$1.19											_
2	Lansoprazole			Dollars		\$141,533,738	\$157,102,854	\$146,170,833	\$144,112,624	\$146,280,892	\$139,015,772	\$129,412,967	\$119,409,121	\$118,296,822	\$115,779,417	\$111,870,973	\$104,993,978	\$73,753,582											
4	La		Extended	Units		78,381,720	92,295,550	85,800,550	86,162,290	88,992,030	88,465,180	88,387,110	90,154,510	90,472,690	87,211,070	99,922,614	88,215,620	62,137,066											
3			Price	(\$/EN)	\$4.65	\$4.56	\$4.35	\$4.58	\$4.76	\$4.64	\$4.79	\$5.33	\$5.40	\$5.55	\$5.53	\$5.99	\$6.04	\$6.06											
2	Prevacid			Dollars	\$636,409,983	\$195,422,857	\$64,037,087	\$49,873,528	\$43,440,243	\$34,045,546	\$28,975,127	\$27,035,196	\$23,515,693	\$17,540,254	\$16,620,485	\$16,543,298	\$15,752,281	\$12,010,968											
_			Extended	Units	136,872,443	42,894,565	14,706,983	10,898,260	9,121,110	7,339,160	6,046,040	5,067,620	4,355,650	3,160,790	3,008,120	2,762,430	2,609,730	1,982,360											
I				Quarter	0	_	2	8	4	2	9	7	8	6	10	7	12	13	14	15	16	17	18	19	20	21	22	23	24

Attachment G.1.c: Yardstick Calculations for Scenario 1.C Starting in 2010Q1, 2010Q3, 2011Q1, 2011Q3 and 2012Q1

Source: IMS NSP data. Excludes oral suspension and IV forms. = Column 2 / Column 1.

Notes:

Source: IMS NSP data. Excludes oral suspension and IV forms.

= Column 5 / Column 4.

= Column 4 / (Column 1 + Column 4).

= (Column 6 - Column 3 in Period 0) / Column 3 in Period 0 . = (Column 3 - Column 3 in Period 0) / Column 3 in Period 0 . Number of significant generic manufacturers.

Periods 1-13, = Column 7. Period 14 onward, = Column 7 in Period 13.

Periods 1 and 2, = Column 8 * (2/3); Periods 3-9, = Column 8 starting in Period 5; Period 10 onward, = Column 8 in Period 11.

Period 1-13, = Column 9. Thereafter, based on the linear trend from the previous 8 quarters of available data. Number of generics in the but-for scenario.

\$21,868,727,724

\$69,496,390

\$21,799,231,334

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= Column 1 * (1 - Column 4). = Column 3 in 2008Q4 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

= Column 3 in 2008Q4 * (1 + Column 5).

= G.1.a Column 11. = G.1.a Column 12. = G.1.a Column 13. = Column 1 * Column 4.

= C.1 Column 2. = C.1 Column 3. = C.1 Column 1.

Notes:

Total

Attachment G.2: Nexium Direct Purchase	t G.2: Nexi	ium Direct	Purchae		erchar	ges A	r Overcharges Assuming Generic Launch in 2009Q1	Gener	ic Launc	h in 2	009Q1		
ocenano i.c	_	7	က	4	2	9	7	80	6	10	11	12	13
	Actua	Actual Nexium Purchases	ses		Yardsticks			But-For Purchases	rchases			Overcharges	
	7		Average	Generic	Generic	Brand	7:01	Generic		Brand	0	7 20 20 20 20 20 20 20 20 20 20 20 20 20	H
Quarter	Quaritity (Pills)	Net Sales	Sales Pilce (\$/Pill)	Share	Change	Change	rice generic onits	(\$/Pill)	Prand Units (Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2008Q4	393,177,650	\$1,729,597,621	\$4.40										
2009Q1	344,590,681	\$1,549,462,904	\$4.50	64.6%	-40.8%	-2.0%	222,711,392	\$2.61	121,879,289	\$4.31	\$421,209,838	\$22,696,713	\$443,906,551
2009Q2	370,370,888	\$1,670,966,347	\$4.51	86.3%	-42.3%	-6.4%	319,465,192	\$2.54	50,905,695	\$4.12	\$629,873,477	\$19,960,865	\$649,834,342
2009Q3	358,376,852	\$1,616,747,386	\$4.51	88.7%	-63.4%	-1.6%	317,986,654	\$1.61	40,390,198	\$4.33	\$922,010,130	\$7,338,934	\$929,349,064
2009Q4	358,556,485	\$1,659,417,762	\$4.63	90.4%	-64.0%	2.4%	324,233,265	\$1.58	34,323,220	\$4.51	\$987,496,922	\$4,193,229	\$991,690,151
2010Q1	337,613,503	\$1,606,829,125	\$4.76	92.4%	-64.0%	-0.2%	311,891,829	\$1.58	25,721,675	\$4.39	\$990,868,080	\$9,530,902	\$1,000,398,982
2010Q2	342,909,973	\$1,645,068,869	\$4.80	93.6%	-64.0%	3.1%	320,973,452	\$1.58	21,936,522	\$4.53	\$1,031,918,230	\$5,775,747	\$1,037,693,977
2010Q3	336,185,463	\$1,578,344,774	\$4.69	94.6%	-64.6%	14.7%	317,955,673	\$1.56	18,229,791	\$5.05	\$998,290,211	\$0	\$998,290,211
2010Q4	340,358,296	\$1,643,480,690	\$4.83	95.4%	-66.2%	16.1%	324,672,346	\$1.49	15,685,950	\$5.11	\$1,085,043,841	\$0	\$1,085,043,841
2011Q1	303,971,918	\$1,526,485,048	\$5.02	%9.96	-68.5%	19.3%	293,710,723	\$1.39	10,261,195	\$5.25	\$1,068,096,391	\$0	\$1,068,096,391
2011Q2	319,678,317	\$1,611,187,175	\$5.04	%2'96	-71.5%	18.8%	309,019,490	\$1.25	10,658,827	\$5.23	\$1,170,234,433	\$0	\$1,170,234,433
2011Q3	312,062,380	\$1,520,652,211	\$4.87	97.3%	-71.9%	28.8%	303,667,288	\$1.24	8,395,093	\$5.67	\$1,104,088,928	\$0	\$1,104,088,928
2011Q4	321,987,932	\$1,641,033,084	\$5.10	97.1%	-71.4%	29.8%	312,736,092	\$1.26	9,251,840	\$5.71	\$1,201,079,050	\$0	\$1,201,079,050
2012Q1	264,078,806	\$1,359,897,049	\$5.15	%6.96	-75.9%	30.3%	255,914,365	\$1.06	8,164,441	\$5.73	\$1,046,782,213	\$0	\$1,046,782,213
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%6.96	-75.9%	36.4%	275,016,957	\$1.06	8,773,871	\$6.00	\$1,145,312,651	\$0	\$1,145,312,651
2012Q3		\$1,495,738,212	\$5.23	%6.96	-75.9%	40.0%	277,165,345	\$1.06	8,842,411	\$6.16	\$1,155,914,012	\$0	\$1,155,914,012
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6.96	-75.9%	43.6%	287,382,559	\$1.06	9,168,371	\$6.32	\$1,261,743,297	\$0	\$1,261,743,297
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-75.9%	47.2%	241,120,928	\$1.06	7,692,486	\$6.48	\$1,078,726,739	\$0	\$1,078,726,739
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-75.9%	20.8%	275,798,740	\$1.06	8,798,812	\$6.64	\$1,291,944,362	\$0	\$1,291,944,362
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-75.9%	54.5%	254,553,059	\$1.06	8,121,011	\$6.79	\$1,201,515,002	\$0	\$1,201,515,002
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-75.9%	58.1%	249,263,559	\$1.06	7,952,260	\$6.95	\$1,203,799,101	\$0	\$1,203,799,101
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	61.7%	162,649,373	\$1.06	5,189,006	\$7.11	\$803,284,426	\$0	\$803,284,426

\$58,131,667 \$19,626,656,043

\$19,568,524,377

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	1	2	3	4	2	9	7	8	6	10	11	12	13
	Actus	Actual Nexium Purchases	ses		Yardsticks		Ш	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2009Q2	370,370,888	\$1,670,966,347	\$4.51										
2009Q3	358,376,852	\$1,616,747,386	\$4.51	64.6%	-40.8%	-2.0%	231,621,492	\$2.67	126,755,360	\$4.42	\$426,040,227	\$11,495,101	\$437,535,328
2009Q4	358,556,485	\$1,659,417,762	\$4.63	86.3%	-42.3%	-6.4%	309,274,622	\$2.60	49,281,863	\$4.22	\$625,692,179	\$19,867,351	\$645,559,530
2010Q1	337,613,503	\$1,606,829,125	\$4.76	88.7%	-63.4%	-1.6%	299,563,400	\$1.65	38,050,104	\$4.44	\$930,547,358	\$12,136,732	\$942,684,090
2010Q2	342,909,973	\$1,645,068,869	\$4.80	90.4%	-64.0%	2.4%	310,084,533	\$1.62	32,825,441	\$4.62	\$984,353,230	\$5,783,241	\$990,136,471
2010Q3	336,185,463	\$1,578,344,774	\$4.69	92.4%	-64.6%	-0.2%	310,572,587	\$1.59	25,612,877	\$4.50	\$962,748,860	\$4,961,458	\$967,710,318
2010Q4	340,358,296	\$1,643,480,690	\$4.83	93.6%	-66.2%	3.1%	318,585,009	\$1.52	21,773,286	\$4.65	\$1,052,578,687	\$3,887,784	\$1,056,466,471
2011Q1	303,971,918	\$1,526,485,048	\$5.02	94.6%	-68.5%	14.7%	287,488,920	\$1.42	16,482,998	\$5.18	\$1,035,278,687	\$0	\$1,035,278,687
2011Q2	319,678,317	\$1,611,187,175	\$5.04	95.4%	-71.5%	16.1%	304,945,437	\$1.29	14,732,880	\$5.24	\$1,145,026,919	\$0	\$1,145,026,919
2011Q3	312,062,380	\$1,520,652,211	\$4.87	%9.96	-71.9%	19.3%	301,528,075	\$1.27	10,534,305	\$5.38	\$1,086,765,058	\$0	\$1,086,765,058
2011Q4	321,987,932	\$1,641,033,084	\$5.10	%2'96	-71.4%	18.8%	311,252,097	\$1.29	10,735,835	\$5.36	\$1,185,374,836	\$0	\$1,185,374,836
2012Q1	264,078,806	\$1,359,897,049	\$5.15	97.3%	-75.9%	28.8%	256,974,566	\$1.09	7,104,240	\$5.81	\$1,044,152,833	\$0	\$1,044,152,833
2012Q2	283,790,829	\$1,482,450,406	\$5.22	97.1%	-75.9%	29.8%	275,636,526	\$1.09	8,154,303	\$5.86	\$1,140,420,986	\$0	\$1,140,420,986
2012Q3	286,007,757	\$1,495,738,212	\$5.23	%6.96	-75.9%	30.3%	277,165,345	\$1.09	8,842,411	\$5.88	\$1,148,400,703	\$0	\$1,148,400,703
2012Q4	296,550,930	\$1,616,111,381	\$5.45	%6.96	-75.9%	36.4%	287,382,559	\$1.09	9,168,371	\$6.15	\$1,253,953,023	\$0	\$1,253,953,023
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-75.9%	40.0%	241,120,928	\$1.09	7,692,486	\$6.32	\$1,072,190,510	\$0	\$1,072,190,510
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-75.9%	43.6%	275,798,740	\$1.09	8,798,812	\$6.48	\$1,284,468,098	\$0	\$1,284,468,098
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-75.9%	47.2%	254,553,059	\$1.09	8,121,011	\$6.64	\$1,194,614,659	\$0	\$1,194,614,659
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-75.9%	20.8%	249,263,559	\$1.09	7,952,260	\$6.81	\$1,197,042,145	\$0	\$1,197,042,145
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	54.5%	162,649,373	\$1.09	5,189,006	\$6.97	\$798,875,379	\$0	\$798,875,379

Notes:

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = G.1.b Column 11. = G.1.b Column 12. = G.1.b Column 13. = Column 1 * Column 4.

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= Column 3 in 200902 * (1 + Column 5).
= Column 1 * (1 - Column 4).
= Column 3 in 200902 * (1 + Column 6).
= Column 7 * (Column 3 - Column 8).
= Column 7 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

\$17,379,407,948 \$71,726,418 \$17,451,134,366

Privileged and Confidential: Subject to Court Order

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Quarter	(PIIIS)	Net Sales	(\$/PIII)	Share	Change	Change	(PIIIS)	(\$/PIII)	(PIIIS)	(#/HII)	Overcharges	Overcharges	Overcharges
2009Q4	358,556,485	\$1,659,417,762	\$4.63										
2010Q1	337,613,503	\$1,606,829,125	\$4.76	64.6%	-40.8%	-2.0%	218,201,993	\$2.74	119,411,510	\$4.53	\$440,437,642	\$26,826,589	\$467,264,231
2010Q2	342,909,973	\$1,645,068,869	\$4.80	86.3%	-42.3%	-6.4%	295,778,648	\$2.67	47,131,325	\$4.33	\$628,584,870	\$21,841,394	\$650,426,264
2010Q3	336,185,463	\$1,578,344,774	\$4.69	88.7%	-64.6%	-1.6%	298,296,304	\$1.64	37,889,159	\$4.56	\$912,413,467	\$5,298,612	\$917,712,078
2010Q4	340,358,296	\$1,643,480,690	\$4.83	90.4%	-66.2%	2.4%	307,777,117	\$1.56	32,581,178	\$4.74	\$1,004,757,617	\$2,873,808	\$1,007,631,425
2011Q1	303,971,918	\$1,526,485,048	\$5.02	92.4%	-68.5%	-0.2%	280,813,286	\$1.46	23,158,632	\$4.62	\$1,000,941,818	\$9,366,831	\$1,010,308,649
2011Q2	319,678,317	\$1,611,187,175	\$5.04	93.6%	-71.5%	3.1%	299,227,963	\$1.32	20,450,354	\$4.77	\$1,113,632,837	\$5,519,185	\$1,119,152,022
2011Q3	312,062,380	\$1,520,652,211	\$4.87	94.6%	-71.9%	14.7%	295,140,673	\$1.30	16,921,707	\$5.31	\$1,054,078,744	\$0	\$1,054,078,744
2011Q4	321,987,932	\$1,641,033,084	\$5.10	95.4%	-71.4%	16.1%	307,148,610	\$1.32	14,839,322	\$5.37	\$1,159,534,852	\$0	\$1,159,534,852
2012Q1	264,078,806	\$1,359,897,049	\$5.15	%9.96	-75.9%	19.3%	255,164,285	\$1.11	8,914,521	\$5.52	\$1,029,642,594	\$0	\$1,029,642,594
2012Q2	283,790,829	\$1,482,450,406	\$5.22	%2.96	-75.9%	18.8%	274,328,575	\$1.11	9,462,254	\$5.50	\$1,127,317,500	\$0	\$1,127,317,500
2012Q3	286,007,757	\$1,495,738,212	\$5.23	97.3%	-75.9%	28.8%	278,313,585	\$1.11	7,694,172	\$5.96	\$1,145,354,595	\$0	\$1,145,354,595
2012Q4	296,550,930	\$1,616,111,381	\$5.45	97.1%	-75.9%	29.8%	288,029,984	\$1.11	8,520,946	\$6.01	\$1,248,701,836	\$0	\$1,248,701,836
2013Q1	248,813,414	\$1,376,691,190	\$5.53	%6.96	-75.9%	30.3%	241,120,928	\$1.11	7,692,486	\$6.03	\$1,065,429,666	\$0	\$1,065,429,666
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%6.96	-75.9%	36.4%	275,798,740	\$1.11	8,798,812	\$6.31	\$1,276,734,916	\$0	\$1,276,734,916
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%6.96	-75.9%	40.0%	254,553,059	\$1.11	8,121,011	\$6.48	\$1,187,477,189	\$0	\$1,187,477,189
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%6.96	-75.9%	43.6%	249,263,559	\$1.11	7,952,260	\$6.65	\$1,190,052,988	\$0	\$1,190,052,988
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	47.2%	162,649,373	\$1.11	5,189,006	\$6.81	\$794,314,817	\$0	\$794,314,817

= C.1 Column 1.

= C.1 Column 3. = C.1 Column 3. = G.1.c Column 14. = G.1.c Column 13. = Golumn 1 * Column 4. = Column 3 in 2009Q4 * (1 + Column 5). = Column 3 in 2009Q4 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 7 * (Column 3 - Column 8). = Column 1 + Column 12.

Notes:

Total

\$35,054,992 \$14,843,592,748

\$14,808,537,756

Privileged and Confidential: Subject to Court Order

		:											
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	Actual	Actual Nexium Purchases	Sé		Yardsticks		Ш	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2010Q2	342,909,973 \$	\$1,645,068,869	\$4.80										
2010Q3	336,185,463 \$	\$1,578,344,774	\$4.69	64.6%	-40.8%	-2.0%	217,279,041	\$2.84	118,906,423	\$4.70	\$402,768,697	\$0	\$402,768,697
2010Q4	340,358,296 \$	\$1,643,480,690	\$4.83	86.3%	-42.3%	-6.4%	293,577,687	\$2.77	46,780,609	\$4.49	\$604,393,916	\$15,725,221	\$620,119,137
2011Q1	303,971,918 \$	\$1,526,485,048	\$5.02	88.7%	-64.6%	-1.6%	269,713,327	\$1.70	34,258,591	\$4.72	\$897,018,277	\$10,281,792	\$90,300,069
2011Q2	319,678,317 \$	\$1,611,187,175	\$5.04	90.4%	-66.2%	2.4%	289,076,753	\$1.62	30,601,564	\$4.91	\$988,262,114	\$3,859,237	\$992,121,351
2011Q3	312,062,380 \$	\$1,520,652,211	\$4.87	92.4%	-68.5%	-0.2%	288,287,363	\$1.51	23,775,018	\$4.79	\$969,289,331	\$2,059,955	\$971,349,286
2011Q4	321,987,932 \$	\$1,641,033,084	\$5.10	93.6%	-71.5%	3.1%	301,389,828	\$1.37	20,598,104	\$4.94	\$1,124,182,065	\$3,128,786	\$1,127,310,851
2012Q1	264,078,806 \$	\$1,359,897,049	\$5.15	94.6%	-71.9%	14.7%	249,759,027	\$1.35	14,319,779	\$5.50	\$949,210,503	\$0	\$949,210,503
2012Q2	283,790,829 \$	\$1,482,450,406	\$5.22	95.4%	-71.4%	16.1%	270,711,880	\$1.37	13,078,949	\$5.57	\$1,043,320,513	\$0	\$1,043,320,513
2012Q3	286,007,757 \$	\$1,495,738,212	\$5.23	%9.96	-75.9%	19.3%	276,352,979	\$1.16	9,654,778	\$5.73	\$1,126,018,647	\$0	\$1,126,018,647
2012Q4	296,550,930 \$	\$1,616,111,381	\$5.45	%2'96	-75.9%	18.8%	286,663,224	\$1.16	9,887,706	\$5.70	\$1,231,088,738	\$0	\$1,231,088,738
2013Q1	248,813,414 \$	\$1,376,691,190	\$5.53	97.3%	-75.9%	28.8%	242,119,843	\$1.16	6,693,571	\$6.18	\$1,059,971,876	\$0	\$1,059,971,876
2013Q2	284,597,553 \$	\$1,634,614,615	\$5.74	97.1%	-75.9%	29.8%	276,420,070	\$1.16	8,177,483	\$6.23	\$1,268,341,063	\$0	\$1,268,341,063
2013Q3	262,674,071 \$	\$1,518,078,347	\$5.78	%6.96	-75.9%	30.3%	254,553,059	\$1.16	8,121,011	\$6.25	\$1,177,098,618	\$0	\$1,177,098,618
2013Q4	257,215,820 \$	\$1,514,653,791	\$5.89	%6.96	-75.9%	36.4%	249,263,559	\$1.16	7,952,260	\$6.54	\$1,179,890,080	\$0	\$1,179,890,080
2014Q1	167,838,379 \$	\$1,006,690,517	\$6.00	%6.96	-75.9%	40.0%	162,649,373	\$1.16	5,189,006	\$6.72	\$787,683,319	\$0	\$787,683,319

Notes:

Total

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = G.1.c Column 11. = G.1.c Column 12. = G.1.c Column 13.

= Column 1 * Column 4.

= Column 3 in 2010Q2 * (1 + Column 5).

= Column 1 * (1 - Column 4). = Column 3 in 2010Q2 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

Privileged and Confidential: Subject to Court Order

Qua (F)												
Qua (A)	2	က	4	2	9	7	8	6	10	1	12	13
	Actual Nexium Purchases	ses		Yardsticks		ш	But-For Purchases	rchases			Overcharges	
		Average	Generic	Generic	Brand		Generic		Brand			
		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
) Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
		•										
201004 340,358,296		\$4.83										
2011Q1 303,971,918	\$1,526,485,048	\$5.02	64.6%	-40.8%	-2.0%	196,459,199	\$2.86	107,512,719	\$4.73	\$424,762,361	\$31,232,157	\$455,994,518
2011Q2 319,678,317	\$1,611,187,175	\$5.04	86.3%	-42.3%	-6.4%	275,740,071	\$2.79	43,938,246	\$4.52	\$620,965,211	\$22,768,164	\$643,733,375
2011Q3 312,062,380	\$1,520,652,211	\$4.87	88.7%	-64.6%	-1.6%	276,891,969	\$1.71	35,170,412	\$4.75	\$876,604,161	\$4,235,636	\$880,839,797
2011Q4 321,987,932	\$1,641,033,084	\$5.10	90.4%	-66.2%	2.4%	291,165,277	\$1.63	30,822,655	\$4.95	\$1,008,784,758	\$4,641,669	\$1,013,426,426
2012Q1 264,078,806	\$1,359,897,049	\$5.15	92.4%	-68.5%	-0.2%	243,959,501	\$1.52	20,119,305	\$4.82	\$885,342,179	\$6,681,486	\$892,023,665
2012Q2 283,790,829	\$1,482,450,406	\$5.22	93.6%	-71.5%	3.1%	265,636,257	\$1.38	18,154,572	\$4.98	\$1,022,235,650	\$4,480,767	\$1,026,716,416
2012Q3 286,007,757	, \$1,495,738,212	\$5.23	94.6%	-71.9%	14.7%	270,498,872	\$1.36	15,508,885	\$5.54	\$1,047,324,948	\$0	\$1,047,324,948
2012Q4 296,550,930	\$1,616,111,381	\$5.45	95.4%	-71.4%	16.1%	282,883,912	\$1.38	13,667,018	\$5.61	\$1,151,620,739	\$0	\$1,151,620,739
2013Q1 248,813,414	\$1,376,691,190	\$5.53	%9.96	-75.9%	19.3%	240,414,207	\$1.16	8,399,207	\$5.76	\$1,050,692,899	\$0	\$1,050,692,899
2013Q2 284,597,553	\$1,634,614,615	\$5.74	%2'96	-75.9%	18.8%	275,108,401	\$1.16	9,489,152	\$5.74	\$1,260,249,147	\$53,733	\$1,260,302,880
2013Q3 262,674,071	\$1,518,078,347	\$5.78	97.3%	-75.9%	28.8%	255,607,621	\$1.16	7,066,450	\$6.22	\$1,180,048,683	\$0	\$1,180,048,683
2013Q4 257,215,820	\$1,514,653,791	\$5.89	97.1%	-75.9%	29.8%	249,825,109	\$1.16	7,390,710	\$6.27	\$1,180,665,345	\$0	\$1,180,665,345
2014Q1 167,838,379	\$1,006,690,517	\$6.00	%6.96	-75.9%	30.3%	162,649,373	\$1.16	5,189,006	\$6.29	\$786,457,495	\$0	\$786,457,495

\$74,093,611 \$12,569,847,185 \$12,495,753,575

Total

= C.1 Column 1. Notes:

= C.1 Column 2. = C.1 Column 3. = G.1.c Column 11.

= G.1.c Column 12. = G.1.c Column 13.

= Column 1 * Column 4.

= Column 3 in 2010Q4 * (1 + Column 5). = Column 1 * (1 - Column 4).

= Column 3 in 2010Q4 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.

= Column 11 + Column 12.

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Privileged and Confidential: Subject to Court Order

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	Actua	Actual Nexium Purchases	es		Yardsticks		T I	But-For Purchases	ırchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
201102	319.678.317	\$1.611.187.175	\$5.04										
2011Q3	312,062,380	\$1,520,652,211	\$4.87	64.6%	-40.8%	-2.0%	201,688,122	\$2.98	110,374,259	\$4.94	\$380,794,556	\$0	\$380,794,556
2011Q4	321,987,932	\$1,641,033,084	\$5.10	86.3%	-42.3%	-6.4%	277,732,241	\$2.91	44,255,691	\$4.72	\$607,262,933	\$16,675,898	\$623,938,831
2012Q1	264,078,806	\$1,359,897,049	\$5.15	88.7%	-64.6%	-1.6%	234,316,294	\$1.78	29,762,512	\$4.96	\$789,137,808	\$5,627,964	\$794,765,772
2012Q2	283,790,829	\$1,482,450,406	\$5.22	90.4%	-66.2%	2.4%	256,624,634	\$1.70	27,166,194	\$5.16	\$903,419,948	\$1,664,926	\$905,084,874
2012Q3	286,007,757	\$1,495,738,212	\$5.23	92.4%	-68.5%	-0.2%	264,217,756	\$1.59	21,790,001	\$5.03	\$962,446,239	\$4,387,604	\$966,833,843
2012Q4	296,550,930	\$1,616,111,381	\$5.45	93.6%	-71.5%	3.1%	277,580,074	\$1.44	18,970,856	\$5.19	\$1,114,205,991	\$4,836,130	\$1,119,042,122
2013Q1	248,813,414	\$1,376,691,190	\$5.53	94.6%	-71.9%	14.7%	235,321,407	\$1.42	13,492,007	\$5.78	\$968,514,201	\$0	\$968,514,201
2013Q2	284,597,553	\$1,634,614,615	\$5.74	95.4%	-71.4%	16.1%	271,481,425	\$1.44	13,116,128	\$5.85	\$1,168,609,332	\$0	\$1,168,609,332
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%9.96	-75.9%	19.3%	253,806,969	\$1.21	8,867,102	\$6.02	\$1,158,819,519	\$0	\$1,158,819,519
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%2'96	-75.9%	18.8%	248,639,639	\$1.21	8,576,180	\$5.99	\$1,162,409,614	\$0	\$1,162,409,614
2014Q1	167,838,379	\$1,006,690,517	\$6.00	97.3%	-75.9%	28.8%	163,323,196	\$1.21	4,515,183	\$6.49	\$781,404,132	\$0	\$781,404,132

Notes:

Total

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = G.1.c Column 11. = G.1.c Column 12. = G.1.c Column 13.

= Column 1 * Column 4. = Column 3 in 2011Q2 * (1 + Column 5).

= Column 1 * (1 - Column 4). = Column 3 in 2011Q2 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

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Attachment	Scenario 1.C	

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Actual	Nexium Purchas	es		Yardsticks		-	But-For Pu	rchases			Overcharges	
		Average	Generic	Generic	Brand		Generic		Brand			
Quantity		Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
987,932 \$	\$1,641,033,084	\$5.10										
264,078,806 \$	\$1,359,897,049	\$5.15	64.6%	-40.8%	-2.0%	•	\$3.02	93,402,807	\$4.99	\$363,749,523	\$14,552,409	\$378,301,932
\$ 283,790,829	\$1,482,450,406	\$5.22	86.3%	-42.3%	-6.4%		\$2.94	39,005,683	\$4.77	\$558,363,521	\$17,592,982	\$575,956,504
286,007,757 \$	\$1,495,738,212	\$5.23	88.7%	-64.6%	-1.6%	253,773,783	\$1.80	32,233,974	\$5.02	\$869,928,232	\$6,884,256	\$876,812,488
296,550,930 \$	\$1,616,111,381	\$5.45	90.4%	-66.2%	2.4%	268,163,261	\$1.72	28,387,669	\$5.22	\$999,507,522	\$6,509,916	\$1,006,017,438
248,813,414 \$	\$1,376,691,190	\$5.53	92.4%	-68.5%	-0.2%	229,857,129	\$1.60	18,956,285	\$5.08	\$902,909,848	\$8,497,407	\$911,407,254
284,597,553 \$	\$1,634,614,615	\$5.74	93.6%	-71.5%	3.1%	266,391,374	\$1.45	18,206,179	\$5.25	\$1,143,298,575	\$8,931,142	\$1,152,229,717
262,674,071 \$	\$1,518,078,347	\$5.78	94.6%	-71.9%	14.7%	248,430,464	\$1.43	14,243,606	\$5.85	\$1,079,704,850	\$0	\$1,079,704,850
257,215,820 \$	\$1,514,653,791	\$5.89	95.4%	-71.4%	16.1%	245,361,622	\$1.46	11,854,197	\$5.92	\$1,087,803,415	\$0	\$1,087,803,415
167,838,379 \$	\$1,006,690,517	\$6.00	%9.96	-75.9%	19.3%	162,172,651	\$1.23	5,665,728	\$6.08	\$773,691,603	\$0	\$773,691,603
										\$7,778,957,090	\$62,968,111	\$7,841,925,201
	Actual Quantity (Pills) (Pills	Actual Nexium Purchass Quantity (Pills) Net Sales (Pills) Net Sales 321,987,932 \$1,641,033,084 284,078,806 \$1,359,897,049 283,790,829 \$1,482,450,406 286,007,757 \$1,495,738,212 296,550,930 \$1,616,111,381 248,813,414 \$1,376,691,190 284,597,553 \$1,634,614,615 262,674,071 \$1,518,078,347 257,215,820 \$1,514,653,791 167,838,379 \$1,006,690,517	Sal Net Sales \$1,641,033,084 \$1,359,897,049 \$1,485,738,212 \$1,485,738,212 \$1,461,111,381 \$1,376,691,190 \$1,518,078,347 \$1,518,078,347 \$1,518,078,347 \$1,518,006,690,517	Average Generic Sales Price Market Net Sales (\$/Pill) Share \$1,564,033,084 \$5.10 \$1,359,897,049 \$5.15 \$1,482,450,406 \$5.22 86.3% \$1,482,450,406 \$5.23 88.7% \$1,641,11,381 \$5.23 88.7% \$1,516,111,381 \$5.54 90.4% \$1,518,078,347 \$5.78 94.6% \$1,518,078,347 \$5.89 95.4% \$1,518,005,690,517 \$6.00 96.6%	Nexium Purchases	Nexium Purchases	Nexium Purchases	Nexium Purchases	Nexium Purchases	Nexium Purchases	Nexium Purchases	Nexium Purchases

= C.1 Column 1. = C.1 Column 2. = C.1 Column 3. = G.1.c Column 11. = G.1.c Column 12. = G.1.c Column 13.

Notes:

= Column 1 * Column 4. = Column 3 in 2011Q4 * (1 + Column 5).

= Column 1 * (1 - Column 4). = Column 3 in 2011Q4 * (1 + Column 6).

= Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

Attachment H

\$7,495,188,646

\$32,150,011

\$7,463,038,636

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Attachment H.1: No	Scenario 2.A		

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	Actus	Actual Nexium Purchases	ses		Yardsticks			But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
004104	303 071 018	¢1 526 485 048	\$5 02										
201102	319.678.317		\$5.04	64.6%	-40.8%	-2.0%	206,610,355	\$2.97	113.067.962	\$4.92	\$426.846.368	\$13.512.076	\$440.358.444
2011Q3	312,062,380	\$1,520,652,211	\$4.87	86.3%	-42.3%	-6.4%	269,170,909	\$2.90	42,891,472	\$4.70	\$531,175,113	\$7,301,145	\$538,476,258
2011Q4	321,987,932	\$1,641,033,084	\$5.10	88.7%	-42.3%	-1.6%	285,698,879	\$2.90	36,289,053	\$4.94	\$627,689,273	\$5,589,141	\$633,278,414
2012Q1	264,078,806	\$1,359,897,049	\$5.15	90.4%	-42.3%	2.4%	238,799,567	\$2.90	25,279,239	\$5.14	\$537,311,414	\$146,734	\$537,458,147
2012Q2	283,790,829	\$1,482,450,406	\$5.22	92.4%	-42.3%	-0.2%	262,169,729	\$2.90	21,621,100	\$5.01	\$609,336,734	\$4,617,784	\$613,954,518
2012Q3	286,007,757	\$1,495,738,212	\$5.23	93.6%	-42.3%	3.1%	267,711,365	\$2.90	18,296,392	\$5.18	\$623,814,578	\$983,131	\$624,797,709
2012Q4	296,550,930	\$1,616,111,381	\$5.45	94.6%	-42.3%	14.7%	280,470,338	\$2.90	16,080,592	\$5.76	\$715,243,222	\$0	\$715,243,222
2013Q1	248,813,414	\$1,376,691,190	\$5.53	95.4%	-42.3%	16.1%	237,346,455	\$2.90	11,466,959	\$5.83	\$625,049,584	\$0	\$625,049,584
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%9.96	-42.3%	19.3%	274,990,379	\$2.90	9,607,174	\$5.99	\$782,090,311	\$0	\$782,090,31
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%2'96	-42.3%	18.8%	253,915,899	\$2.90	8,758,171	\$5.97	\$731,223,723	\$0	\$731,223,723
2013Q4	257,215,820	\$1,514,653,791	\$5.89	97.3%	-42.3%	28.8%	250,296,207	\$2.90	6,919,612	\$6.47	\$748,163,726	\$0	\$748,163,726
2014Q1	167.838.379	\$1,006,690,517	\$6.00	97.1%	-42.3%	29.8%	163.015.795	\$2.90	4.822.584	\$6.52	\$505,094,590	\$0	\$505,094,590

Notes:

Total

= C.1 Column 4. = C.1 Column 5. = C.1 Column 6. = C.2.a Column 11. = C.2.a Column 12.

= C.2.a Column 13.

= Column 1 * Column 4. = Column 3 in 2011Q1 * (1 + Column 5). = Column 1 * (1 - Column 4). = Column 3 in 2011Q1 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

\$6,392,157,476 \$105,179,886 \$6,497,337,361

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	Actua	Actual Nexium Purchases	es		Yardsticks			But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
			-										
2011Q3	312,062,380	\$1,520,652,211	\$4.87	_									
2011Q4	321,987,932	\$1,641,033,084	\$5.10	64.6%	-40.8%	-2.0%	208,103,076	\$2.89	113,884,856	\$4.77	\$460,045,990	\$36,662,647	\$496,708,638
2012Q1	264,078,806	\$1,359,897,049	\$5.15	86.3%	-42.3%	-6.4%	227,782,445	\$2.81	36,296,360	\$4.56	\$532,103,613	\$21,281,466	\$553,385,079
2012Q2	283,790,829	\$1,482,450,406	\$5.22	88.7%	-42.3%	-1.6%	251,806,710	\$2.81	31,984,119	\$4.80	\$606,897,471	\$13,680,541	\$620,578,012
2012Q3	286,007,757	\$1,495,738,212	\$5.23	90.4%	-42.3%	2.4%	258,629,344	\$2.81	27,378,412	\$4.99	\$624,884,918	\$6,527,848	\$631,412,766
2012Q4	296,550,930	\$1,616,111,381	\$5.45	92.4%	-42.3%	-0.2%	273,957,679	\$2.81	22,593,251	\$4.86	\$722,185,669	\$13,286,355	\$735,472,024
2013Q1	248,813,414	\$1,376,691,190	\$5.53	93.6%	-42.3%	3.1%	232,896,406	\$2.81	15,917,008	\$5.02	\$633,351,339	\$8,125,703	\$641,477,042
2013Q2	284,597,553	\$1,634,614,615	\$5.74	94.6%	-42.3%	14.7%	269,165,137	\$2.81	15,432,416	\$5.59	\$788,661,701	\$2,354,296	\$791,015,997
2013Q3	262,674,071	\$1,518,078,347	\$5.78	95.4%	-42.3%	16.1%	250,568,321	\$2.81	12,105,749	\$5.66	\$743,123,491	\$1,467,229	\$744,590,720
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%9.96	-42.3%	19.3%	248,532,972	\$2.81	8,682,847	\$5.82	\$764,258,329	\$632,740	\$764,891,069
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%2'96	-42.3%	18.8%	162,242,253	\$2.81	5,596,126	\$5.79	\$516,644,954	\$1,161,061	\$517,806,015

Notes:

Total

= C.1 Column 4.
= C.1 Column 5.
= C.2 Column 6.
= C.2.a Column 11.
= C.2.a Column 12.
= C.2.a Column 13.
= Column 1 * Column 4.
= Column 3 in 2011Q3 * (1 + Column 5).
= Column 3 in 2011Q3 * (1 + Column 6).
= Column 7 * (Column 3 - Column 8).
= Column 7 * (Column 3 - Column 8).
= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

\$4,868,626,070

\$73,987,262

\$4,794,638,808

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Attachment H.3: Nexium Direct Purchaser Overcharges Assuming Generic Launch in 2012Q2 Scenario 2.A

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	Actua	Actual Nexium Purchases	es		Yardsticks		Ш	But-For Purchases	ırchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Share Change Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
201201	264.078.806	264.078.806 \$1.359.897.049	\$5.15										
2012Q2	283,790,829	283,790,829 \$1,482,450,406	\$5.22	64.6%	-40.8%	-2.0%	183,416,018	\$3.05	100,374,811	\$5.05	\$398,743,252	\$17,867,337	\$416,610,589
2012Q3	286,007,757	\$1,495,738,212	\$5.23	86.3%	-42.3%	-6.4%	246,697,368	\$2.97	39,310,389	\$4.82	\$556,645,532	\$16,013,225	\$572,658,757
2012Q4	296,550,930		\$5.45	88.7%	-42.3%	-1.6%	263,128,708	\$2.97	33,422,222	\$5.07	\$651,604,221	\$12,746,154	\$664,350,374
2013Q1	248,813,414	\$1,376,691,190	\$5.53	0	-42.3%	2.4%	224,995,471	\$2.97	23,817,942	\$5.27	\$575,921,944	\$6,153,293	\$582,075,237
2013Q2	284,597,553	\$1,634,614,615	\$5.74	92	-42.3%	-0.2%	262,914,991	\$2.97	21,682,562	\$5.14	\$728,347,767	\$13,138,312	\$741,486,079
2013Q3	262,674,071	\$1,518,078,347	\$5.78	93.6%	-42.3%	3.1%	245,870,373	\$2.97	16,803,697	\$5.31	\$689,912,606	\$7,925,119	\$697,837,726
2013Q4	257,215,820	\$1,514,653,791	\$5.89	94.6%	-42.3%	14.7%	243,268,189	\$2.97	13,947,630	\$5.91	\$709,206,473	\$0	\$709,206,473
2014Q1	167,838,379	\$1,006,690,517	\$6.00	95.4%	-42.3%	16.1%	160,103,282	\$2.97	7,735,097	\$5.98	\$484,257,013	\$143,821	\$484,400,834

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Notes:

Total

= C.1 Column 4. = C.1 Column 5. = C.1 Column 6. = C.2.a Column 11.

= C.2.a Column 12.

= C.2.a Column 13.

= Column 1 * Column 4.

= Column 3 in 2012Q1 * (1 + Column 5).
= Column 1 * (1 - Column 4).
= Column 3 in 2012Q1 * (1 + Column 6).
= Column 7 * (Column 3 - Column 8).
= Column 7 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

Attachment I

\$9,661,574,395

\$32,150,011

\$9,629,424,385

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1 2 3 4 5 6 7 8 9 10 11 Average Countity Average Change Change (Pills) Frice Price Price (Pills) Price Price (Pills) Price Brand Units Price Brand Change Change (Pills) 11 Price Brand Change Change (Pills) 11 Overchages (S/Pill) 11 Overchages (S/Pill) 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 <t< th=""><th>Attachment I.1: Nexium Direct Purchaser</th><th>t I.1: Nexi</th><th>um Direct F</th><th>urchase</th><th></th><th>rcharg</th><th>es As</th><th>Overcharges Assuming Generic Launch in 2011Q2</th><th>eneri</th><th>c Launch</th><th>in 20</th><th>11Q2</th><th></th><th></th></t<>	Attachment I.1: Nexium Direct Purchaser	t I.1: Nexi	um Direct F	urchase		rcharg	es As	Overcharges Assuming Generic Launch in 2011Q2	eneri	c Launch	in 20	11Q2		
Actual Nexium Purchases Yardsticks Brand Generic Generic Generic Units Brand Generic Generic Generic Units Price Brand Units	Scenario z.b	~	7	က	4	2	9	7	80	6	10	1	12	13
Quantity Average Generic Brand Generic Units Price Price Price Brand Ceneric Condition Price Price Generic Units Price Price Generic Condition Price Generic Conditio		Actua	al Nexium Purchas	ses		/ardsticks			3ut-For Pu	rchases			Overcharges	
Quantity Sales Price Price Price Price Price Brand-Units Price Brand-Generic (Pills) (\$/Pill) (\$/Pill				Average	Generic	Generic	Brand		Generic		Brand			
(Pills) Net Sales (\$/Pill) Share Change Change (Pills) (\$/Pill) (Pills) (\$/Pill) (ShPill) Share Change Change Change (Pills) (\$/Pill) (Pills) (\$/Pill) (ShPill) Overcharges (\$7.526,485,048 \$5.02 \$5.04 \$5.02 \$5.04 \$5.04 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.34 \$6.3		Quantity		Sales Price	Market	Price	Price	Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
303.971.918 \$1,526,485,048 \$5.02	Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
303,971,978 \$1,526,485,048 \$5.04 \$5.04 \$6.46.8, -40.8% -2.0% 206,610,355 \$2.97 113,067,962 \$4.92 \$4.26,846,368 312,062,380 \$1,526,485,148 \$1.75 \$5.04 \$6.3% -42.3% -6.4% 269,170,909 \$2.90 42,891,472 \$4.77 \$5.175,113 \$21,987,532 \$1,641,033,084 \$5.14 \$6.3% -42.3% -1.6% 268,698 \$7 \$2.90 \$42,891,472 \$4.77 \$4.77 \$1.84 \$21,621,100 \$5.01 \$887,125,080 \$283,790,829 \$1,482,450,406 \$5.22 \$92.4% -63.4% -0.2% 262,169,729 \$1.84 \$21,621,100 \$5.01 \$887,125,080 \$283,790,829 \$1,642,495,738,212 \$5.23 \$93.6% -64.0% \$1.7% \$281,797,338 \$1.81 \$16,080,592 \$5.76 \$1,021,824,986 \$286,007,757 \$1,495,738,212 \$5.53 \$95.4% -64.0% \$1.9% \$27,741,365 \$1.81 \$11,466,959 \$5.83 \$884,492,687 \$286,507,407 \$1.518,078,347 \$5.78 \$96.7% -64.0% \$1.8% \$25,290,379 \$1.81 \$960,777 \$1.81 \$5.49 \$95.8% -64.0% \$1.98 \$27,346,455 \$1.81 \$960,777 \$5.90 \$5.79 \$1.84 \$1.76,691,190 \$5.53 \$1.634,614,615 \$5.78 \$96.7% -64.0% \$1.98 \$27,346,455 \$1.81 \$960,777 \$5.90 \$27,341,495,7338 \$1.81 \$960,777 \$5.90 \$27,341,495,7338 \$1.81 \$960,777 \$5.90 \$27,341,495,7338 \$1.81 \$960,777 \$5.90 \$1.90 \$7.3% \$26.2674,071 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.81 \$960,777 \$1.8			C C C C C C C C C C C C C C C C C C C	C L										
319,678,317 \$1,611,187,175 \$5.04 64.6% -40.8% -2.0% 206,610,355 \$2.97 113,067,962 \$4.92 \$426,846,368 312,062,380 \$1,520,652,211 \$4.87 \$6.3% -42.3% -6.4% 269,170,909 \$2.90 42,891,472 \$4.70 \$531,175,113 321,987,932 \$1,641,033,084 \$5.16 \$8.7% -42.3% -1.6% 286,698,879 \$2.90 36,289,053 \$4.94 \$627,175,113 264,078,806 \$1,359,897,049 \$5.16 \$90.4% -42.3% 2.4% 238,799,567 \$2.90 25,279,239 \$5.14 \$557,311,414 283,790,829 \$1,482,450,406 \$5.22 92.4% -63.4% -0.2% 262,169,729 \$1.84 21,621,100 \$5.01 \$887,125,080 286,007,757 \$1,495,738,212 \$5.23 93.6% -64.0% 3.7% 267,771,365 \$1.81 10,080,592 \$5.18 286,007,775 \$1,495,738,212 \$5.53 95.4% -64.0% 17.7% 280,470,338 \$1.81 11,466,959<	2011Q1	303,971,918	\$1,526,485,048	\$5.02										
312,062,380 \$1,520,652,211 \$4.87 \$6.3% -42.3% -6.4% 269,170,909 \$2.90 42,891,472 \$4.70 \$531,175,113 321,987,932 \$1,641,033,084 \$5.10 \$8.7% -42.3% -1.6% 285,698,879 \$2.90 42,891,472 \$4.94 \$627,689,273 264,078,806 \$1,359,897,049 \$5.15 90.4% -42.3% 2.4% 238,799,567 \$2.90 36,289,053 \$5.14 \$537,311,414 283,790,829 \$1,482,450,406 \$5.22 92.4% -63.4% -0.2% 262,169,729 \$1.84 21,621,100 \$5.01 \$887,125,080 286,007,757 \$1,495,738,212 \$5.23 93.6% -64.0% 3.1% 267,711,365 \$1.81 16,080,592 \$5.18 \$916,449,525 286,550,930 \$1,616,111,381 \$5.53 95.4% -64.0% 16.1% 237,346,455 \$1.81 16,080,592 \$5.83 \$884,492,687 284,831,3414 \$1,518,078,347 \$5.53 95.4% -64.0% 16.3% 27,4990,379 \$1.81	2011Q2	319,678,317	\$1,611,187,175	\$5.04	64.6%	-40.8%	-2.0%	206,610,355	\$2.97	113,067,962	\$4.92	\$426,846,368	\$13,512,076	\$440,358,444
321,987,932 \$1,641,033,084 \$5.10 88.7% -42.3% -1.6% 285,698,879 \$2.90 36,289,053 \$4.94 \$627,689,273 264,078,806 \$1,359,897,049 \$5.15 90.4% -42.3% 2.4% 238,799,567 \$2.90 25,279,239 \$5.14 \$537,311,414 283,790,829 \$1,482,450,406 \$5.22 92.4% -63.4% -0.2% 262,169,729 \$1.84 21,621,100 \$5.01 \$887,125,080 286,007,757 \$1,495,738,212 \$5.23 93.6% -64.0% 3.1% 267,711,365 \$1.81 18,296,392 \$5.18 \$916,449,525 286,550,930 \$1,616,111,381 \$5.53 95.4% -64.0% 14.7% 280,470,338 \$1.81 16,080,592 \$5.76 \$1,021,824,986 284,813,414 \$1,376,691,190 \$5.53 95.4% -64.0% 16.1% 273,46,455 \$1.81 14,66,959 \$5.83 \$884,492,687 284,597,553 \$1,634,614,615 \$5.74 96.6% -64.0% 18.8% 253,915,899 \$1.81<	2011Q3	312,062,380		\$4.87	86.3%	-42.3%	-6.4%	269,170,909	\$2.90	42,891,472	\$4.70	\$531,175,113	\$7,301,145	\$538,476,258
264,078,806 \$1,359,897,049 \$5.15 90.4% -42.3% 2.4% 238,799,567 \$2.90 25,279,239 \$5.14 \$537,311,414 283,790,829 \$1,482,450,406 \$5.22 92.4% -63.4% -0.2% 262,169,729 \$1.84 21,621,100 \$5.01 \$887,125,080 286,007,757 \$1,482,450,406 \$5.23 93.6% -64.0% 3.1% 267,711,365 \$1.81 18,296,392 \$5.18 \$916,449,525 286,550,930 \$1,616,111,381 \$5.48 -64.0% 14.7% 280,470,338 \$1.81 16,080,592 \$5.76 \$1,021,824,986 288,13,414 \$1,376,691,190 \$5.53 95.4% -64.0% 16.1% 237,346,455 \$1.81 11,466,959 \$5.83 \$884,492,687 284,597,553 \$1,614,615 \$5.74 96.6% -64.0% 18.8% 253,915,899 \$1.81 \$1,765,187 \$4,087,717 \$5.97 \$1,082,681,940 286,550,930 \$1,514,665,791 \$5.89 \$6.0% -64.0% 18.8% 253,915,899 \$1	2011Q4	321,987,932	\$1,641,033,084	\$5.10	88.7%	-42.3%	-1.6%	285,698,879	\$2.90	36,289,053	\$4.94	\$627,689,273	\$5,589,141	\$633,278,414
283,790,829 \$1,482,450,406 \$5.22 92.4% -63.4% -0.2% 262,169,729 \$1.84 21,621,100 \$5.01 \$887,125,080 286,007,757 \$1,495,738,212 \$5.23 93.6% -64.0% 3.1% 267,711,365 \$1.81 18,296,392 \$5.18 \$916,449,525 296,550,930 \$1,616,111,381 \$5.45 94.6% -64.0% 14.7% 280,470,338 \$1.81 16,080,592 \$5.76 \$1,021,824,986 248,813,414 \$1,376,691,190 \$5.53 95.4% -64.0% 16.1% 237,346,455 \$1.81 11,466,959 \$5.83 \$884,492,687 284,597,553 \$1,634,614,615 \$5.74 96.6% -64.0% 18.8% 253,915,899 \$1.81 \$1,766,959 \$5.99 \$1,082,681,940 262,675,030 \$1,514,655,791 \$5.89 \$6.0% -64.0% 28.8% 256,915,899 \$1.81 \$6.907,174 \$5.99 \$1,021,762,187 262,674,071 \$1,514,655,791 \$6.0% \$1.83 \$26,962,207 \$1.81 \$1.87	2012Q1	264,078,806	\$1,359,897,049	\$5.15	90.4%	-42.3%	2.4%	238,799,567	\$2.90	25,279,239	\$5.14	\$537,311,414	\$146,734	\$537,458,147
286,007,757 \$1,495,738,212 \$5.23 93.6% -64.0% 3.1% 267,711,365 \$1.81 18,296,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$1.826,392 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.18 \$5.1	2012Q2	283,790,829	\$1,482,450,406	\$5.22	92.4%	-63.4%	-0.2%	262,169,729	\$1.84	21,621,100	\$5.01	\$887,125,080	\$4,617,784	\$891,742,864
296,550,930 \$1,616,111,381 \$5.45 94.6% -64.0% 14.7% 280,470,338 \$1.81 16,080,592 \$5.76 \$7 248,813,414 \$1,376,691,190 \$5.53 95.4% -64.0% 16.1% 237,346,455 \$1.81 11,466,959 \$5.83 284,597,553 \$1,634,614,615 \$5.74 96.6% -64.0% 19.3% 274,990,379 \$1.81 9,607,174 \$5.99 \$5 262,674,071 \$1,518,078,347 \$5.78 96.7% -64.0% 18.8% 253,915,899 \$1.81 9,607,174 \$5.97 \$5 262,674,071 \$1,518,078,347 \$5.89 97.3% -64.0% 28.8% 256,296,250 \$1.81 6,919,612 \$6.97 \$6.00 77.3% 64.0% 28.8% 260,296,207 \$1.81 6,919,612 \$6.7 \$6.00 \$7.4% \$6.00 \$7.4% \$6.00 \$7.4% \$6.00 \$7.4% \$6.00 \$7.4% \$6.00 \$6.00 \$6.00 \$6.00 \$6.00 \$6.00 \$6.00 \$6.00 <t< td=""><td>2012Q3</td><td>286,007,757</td><td>\$1,495,738,212</td><td>\$5.23</td><td>93.6%</td><td>-64.0%</td><td>3.1%</td><td>267,711,365</td><td>\$1.81</td><td>18,296,392</td><td>\$5.18</td><td>\$916,449,525</td><td>\$983,131</td><td>\$917,432,656</td></t<>	2012Q3	286,007,757	\$1,495,738,212	\$5.23	93.6%	-64.0%	3.1%	267,711,365	\$1.81	18,296,392	\$5.18	\$916,449,525	\$983,131	\$917,432,656
248,813,414 \$1,376,691,190 \$5.53 95.4% -64.0% 16.1% 237,346,455 \$1.81 11,466,959 \$5.88 \$8.83 284,597,553 \$1,634,614,615 \$5.74 96.6% -64.0% 19.3% 274,990,379 \$1.81 9,607,174 \$5.99 \$5.91 262,674,071 \$1,518,078,347 \$5.78 96.7% -64.0% 18.8% 253,915,899 \$1.81 8,758,171 \$5.97 \$5.97 257,215,820 \$1,514,653,791 \$6.00 \$7.3% -64.0% 28.8% 250,296,207 \$1.81 6,919,612 \$6.47 \$6.00	2012Q4	296,550,930	\$1,616,111,381	\$5.45	94.6%	-64.0%	14.7%	280,470,338	\$1.81	16,080,592	\$5.76	\$1,021,824,986	\$0	\$1,021,824,986
284,597,553 \$1,634,614,615 \$5.74 96.6% -64.0% 19.3% 274,990,379 \$1.81 9,607,174 \$5.99 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2013Q1	248,813,414	\$1,376,691,190	\$5.53	95.4%	-64.0%	16.1%	237,346,455	\$1.81	11,466,959	\$5.83	\$884,492,687	\$0	\$884,492,687
262,674,071 \$1,518,078,347 \$5.78 96.7% -64.0% 18.8% 253,915,899 \$1.81 8,758,171 \$5.97 \$7 257,215,820 \$1,514,653,791 \$5.89 97.3% -64.0% 28.8% 250,296,207 \$1.81 6,919,612 \$6.47 \$7.83 370 \$4.006,600,647 \$6.00 07.4% 64.0% 20.8% 163,045,705 \$4.84 4.827,584 \$6.50	2013Q2	284,597,553	\$1,634,614,615	\$5.74	%9.96	-64.0%	19.3%	274,990,379	\$1.81	9,607,174	\$5.99	\$1,082,681,940	\$0	\$1,082,681,940
257,215,820 \$1,514,653,791 \$5.89 97.3% -64.0% 28.8% 250,296,207 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$6.47 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,619,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,919,612 \$1.81 6,91	2013Q3	262,674,071	\$1,518,078,347	\$5.78	%2.96	-64.0%	18.8%	253,915,899	\$1.81	8,758,171	\$5.97	\$1,008,778,865	\$0	\$1,008,778,865
167 838 370 \$1 006 600 517 \$6.00 07 1% 64.0% 30 8% 163.015.705 \$1.81 1.832 581 \$6.52	2013Q4	257,215,820		\$5.89	97.3%	-64.0%	28.8%	250,296,207	\$1.81	6,919,612	\$6.47	\$1,021,762,187	\$0	\$1,021,762,187
107,030,073 \$1,000,030,017 \$0.02 \$7.176 \$7.176 \$7.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$	2014Q1	167,838,379	\$1,006,690,517	\$6.00	97.1%	-64.0%	29.8%	163,015,795	\$1.81	4,822,584	\$6.52	\$683,286,946	\$0	\$683,286,946

Notes:

Total

= C.1 Column 4. = C.1 Column 5. = C.1 Column 6. = C.2.b Column 11. = C.2.b Column 12.

= C.2.b Column 13.

= Column 3 in 2011Q1 * (1 + Column 5). = Column 1 * Column 4.

= Column 1 * (1 - Column 4). = Column 3 in 2011Q1 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

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Attachment I.2	Scenario 2.B	
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Actual Nexium Purchases Average Quantity 312,062,380 \$1,520,652,211 \$4.87 321,987,932 \$1,641,033,084 \$5.10 264,078,806 \$1,359,897,049 \$5.15	Generic Market Share 64.6% 86.3%	Yardsticks Generic Brand Price Price Change Change		But-For Purchases	rchases			Overcharges	
Average Quantity	Generic Market Share 64.6% 86.3%	g G	pt						
Quantity Sales Price (*/Fills) 312,062,380 \$1,520,652,211 \$4.87 321,987,932 \$1,641,033,084 \$5.10 264,078,806 \$1,359,897,049 \$5.15	Market Share 64.6% 86.3%	ပ်		Generic		Brand			
(Pills) Net Sales (\$/Pill) 312,062,380 \$1,520,652,211 \$4.87 321,987,932 \$1,641,033,084 \$5.10 264,078,806 \$1,359,897,049 \$5.15	Share 64.6% 86.3%		Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
312,062,380 \$1,520,652,211 \$4.87 321,987,932 \$1,641,033,084 \$5.10 264,078,806 \$1,359,897,049 \$5.15	64.6% 86.3%		ge (Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
312,062,380 \$1,520,652,211 \$4.87 321,987,932 \$1,641,033,084 \$5.10 264,078,806 \$1,359,897,049 \$5.15	64.6%								
321,987,932 \$1,641,033,084 \$5.10 264,078,806 \$1,359,897,049 \$5.15	64.6% 86.3%								
264,078,806 \$1,359,897,049 \$5.15	86.3%	-40.8% -2.0%	% 208,103,076	\$2.89	113,884,856	\$4.77	\$460,045,990	\$36,662,647	\$496,708,638
		-42.3% -6.4%	% 227,782,445	\$2.81	36,296,360	\$4.56	\$532,103,613	\$21,281,466	\$553,385,079
2012Q2 283,790,829 \$1,482,450,406 \$5.22 88	- 88.7%	.42.3% -1.6%	% 251,806,710	\$2.81	31,984,119	\$4.80	\$606,897,471	\$13,680,541	\$620,578,012
2012Q3 \$5.23 \$1,495,738,212 \$5.23 90	90.4%	-42.3% 2.4%	% 258,629,344	\$2.81	27,378,412	\$4.99	\$624,884,918	\$6,527,848	\$631,412,766
\$5.45	92.4%	-63.4% -0.2%	% 273,957,679	\$1.79	22,593,251	\$4.86	\$1,003,858,103	\$13,286,355	\$1,017,144,458
2013Q1 248,813,414 \$1,376,691,190 \$5.53 93	93.6%	-64.0% 3.1%	% 232,896,406	\$1.75	15,917,008	\$5.02	\$880,382,397	\$8,125,703	\$888,508,099
\$5.74	. 94.6%	-64.0% 14.7%	% 269,165,137	\$1.75	15,432,416	\$5.59	\$1,074,162,666	\$2,354,296	\$1,076,516,962
2013Q3 262,674,071 \$1,518,078,347 \$5.78 95	95.4%	64.0% 16.1%	% 250,568,321	\$1.75	12,105,749	\$5.66	\$1,008,898,986	\$1,467,229	\$1,010,366,214
2013Q4 \$5.89 \$1,514,653,791 \$5.89 96	- %9.96	64.0% 19.3%	% 248,532,972	\$1.75	8,682,847	\$5.82	\$1,027,874,948	\$632,740	\$1,028,507,688
2014Q1 167,838,379 \$1,006,690,517 \$6.00 96	%2'96	-64.0% 18.8%	162,242,253	\$1.75	5,596,126	\$5.79	\$688,733,806	\$1,161,061	\$689,894,868

Notes:

= C.1 Column 4.
= C.1 Column 5.
= C.1 Column 6.
= C.2.b Column 11.
= C.2.b Column 12.
= C.2.b Column 13.
= Column 1 * Column 4.
= Column 3 in 2011Q3 * (1 + Column 5).
= Column 3 in 2011Q3 * (1 + Column 6).
= Column 7 * (Column 3 - Column 8).
= Column 7 * (Column 3 - Column 8).
= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

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Scenario 2.B													
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	Actua	Actual Nexium Purchases	ses		Yardsticks		E	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2012Q1	264.078.806	264.078.806 \$1.359.897.049	\$5.15										
2012Q2	283,790,829	\$1,482,450,406	\$5.22	64.6%	-40.8%	-2.0%	183,416,018	\$3.05	100,374,811	\$5.05	\$398,743,252	\$17,867,337	\$416,610,589
2012Q3	286,007,757		\$5.23	86.3%	-42.3%	-6.4%	246,697,368	\$2.97	39,310,389	\$4.82	\$556,645,532	\$16,013,225	\$572,658,757
2012Q4	296,550,930	0)	\$5.45	88.7%	-42.3%	-1.6%	263,128,708	\$2.97	33,422,222	\$5.07	\$651,604,221	\$12,746,154	\$664,350,374
2013Q1	248,813,414	\$1,376,691,190	\$5.53	90.4%	-42.3%	2.4%	224,995,471	\$2.97	23,817,942	\$5.27	\$575,921,944	\$6,153,293	\$582,075,237
2013Q2	284,597,553	\$1,634,614,615	\$5.74	92.4%	-63.4%	-0.2%	262,914,991	\$1.89	21,682,562	\$5.14	\$1,014,014,863	\$13,138,312	\$1,027,153,176
2013Q3	262,674,071	\$1,518,078,347	\$5.78	93.6%	-64.0%	3.1%	245,870,373	\$1.85	16,803,697	\$5.31	\$965,512,455	\$7,925,119	\$973,437,575
2013Q4	257,215,820	\$1,514,653,791	\$5.89	94.6%	-64.0%	14.7%	243,268,189	\$1.85	13,947,630	\$5.91	\$981,889,494	\$0	\$981,889,494
2014Q1	167,838,379	\$1,006,690,517	\$6.00	95.4%	-64.0%	16.1%	160,103,282	\$1.85	7,735,097	\$5.98	\$663,719,223	\$143,821	\$663,863,044
Total											\$5,808,050,984	\$73,987,262	\$5,882,038,246

= C.1 Column 4. = C.1 Column 5. = C.1 Column 6. = C.2.b Column 11. = C.2.b Column 12. = C.2.b Column 13. - 7 c 4 c 0 / 8 0 0 7 7 c c

Notes:

= Column 1 * Column 4.

= Column 3 in 2012Q1 * (1 + Column 5).
= Column 1 * (1 - Column 4).
= Column 3 in 2012Q1 * (1 + Column 6).
= Column 3 in 2012Q1 * (1 + Column 8).
= Column 7 * (Column 3 - Column 8).
= Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero.
= Column 11 + Column 12.

Attachment J

\$32,150,011 \$11,200,083,769

\$11,167,933,759

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Attachment J.1: Nexium Dir	t J.1: Nexii	um Direct	Purchas	er Ove	erchar	ges As	suming	Gener	rect Purchaser Overcharges Assuming Generic Launch in 2011Q2	h in 2	011Q2	
	_	7	က	4	2	9	7	œ	6	10	11	12
	Actua	Actual Nexium Purchases	ses		Yardsticks			3ut-For Po	But-For Purchases			Overcharges
			Average	Generic	Average Generic Generic Brand	Brand		Generic		Brand		
	Quantity		Sales Price	Market	Price	Price	Sales Price Market Price Price Generic Units Price Brand Units	Price	Brand Units	Price	Brand-Generic Brand-Branc	Brand-Bran
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Share Change Change	Change	(Pills) (\$/Pill)	(\$/Pill)	(Pills) (\$/Pill)	(\$/Pill)	Overcharges Overcharges	Overcharge
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	_	2	က	4	2	9	7	∞	တ	10	17	12	13
	Actu	Actual Nexium Purchases	es		Yardsticks			But-For Purchases	ırchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
2011Q1	303,971,918	\$1,526,485,048	\$5.02										
2011Q2	319,678,317	\$1,611,187,175	\$5.04	64.6%	-40.8%	-2.0%	206,610,355	\$2.97	113,067,962	\$4.92	\$426,846,368	\$13,512,076	\$440,358,444
2011Q3	312,062,380	\$1,520,652,211	\$4.87	86.3%	-42.3%	-6.4%	269,170,909	\$2.90	42,891,472	\$4.70	\$531,175,113	\$7,301,145	\$538,476,258
2011Q4	321,987,932	\$1,641,033,084	\$5.10	88.7%	-64.6%	-1.6%	285,698,879	\$1.78	36,289,053	\$4.94	\$948,878,934	\$5,589,141	\$954,468,075
2012Q1	264,078,806	\$1,359,897,049	\$5.15	90.4%	-66.2%	2.4%	238,799,567	\$1.70	25,279,239	\$5.14	\$824,431,732	\$146,734	\$824,578,466
2012Q2	283,790,829	\$1,482,450,406	\$5.22	92.4%	-68.5%	-0.2%	262,169,729	\$1.58	21,621,100	\$5.01	\$954,926,202	\$4,617,784	\$959,543,986
2012Q3	286,007,757	\$1,495,738,212	\$5.23	93.6%	-71.5%	3.1%	267,711,365	\$1.43	18,296,392	\$5.18	\$1,017,091,971	\$983,131	\$1,018,075,102
2012Q4	296,550,930	\$1,616,111,381	\$5.45	94.6%	-71.9%	14.7%	280,470,338	\$1.41	16,080,592	\$5.76	\$1,132,399,172	\$0	\$1,132,399,172
2013Q1	248,813,414	\$1,376,691,190	\$5.53	95.4%	-71.4%	16.1%	237,346,455	\$1.43	11,466,959	\$5.83	\$972,929,573	\$0	\$972,929,573
2013Q2	284,597,553	\$1,634,614,615	\$5.74	%9.96	-75.9%	19.3%	274,990,379	\$1.21	9,607,174	\$5.99	\$1,246,921,370	\$0	\$1,246,921,370
2013Q3	262,674,071	\$1,518,078,347	\$5.78	%2'96	-75.9%	18.8%	253,915,899	\$1.21	8,758,171	\$5.97	\$1,160,431,452	\$0	\$1,160,431,452
2013Q4	257,215,820	\$1,514,653,791	\$5.89	97.3%	-75.9%	28.8%	250,296,207	\$1.21	6,919,612	\$6.47	\$1,171,252,895	\$0	\$1,171,252,895
2014Q1	167,838,379	\$1,006,690,517	\$6.00	97.1%	-75.9%	29.8%	163,015,795	\$1.21	4,822,584	\$6.52	\$780,648,975	\$0	\$780,648,975

= C.1 Column 4. = C.1 Column 5. = C.1 Column 6. = C.2.e Column 11. = C.2.e Column 12.

= C.2.e Column 13.

= Column 3 in 2011Q1 * (1 + Column 5). = Column 1 * Column 4.

= Column 1 * (1 - Column 4). = Column 3 in 2011Q1 * (1 + Column 6). = Column 7 * (Column 3 - Column 8). = Column 9 * (Column 3 - Column 10). If the but-for price is greater than the actual price, set to zero. = Column 11 + Column 12.

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	Actua	Actual Nexium Purchases	9S		Yardsticks		Ш	But-For Purchases	rchases			Overcharges	
			Average	Generic	Generic	Brand		Generic		Brand			
	Quantity		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
Quarter	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges	Overcharges	Overcharges
201103	312,062,380	312 062 380 \$1 520 652 211	\$4.87										
2011Q4	321,987,932	\$1,641,033,084	\$5.10	64.6%	-40.8%	-2.0%	208,103,076	\$2.89	113,884,856	\$4.77	\$460,045,990	\$36,662,647	\$496,708,638
2012Q1	264,078,806	\$1,359,897,049	\$5.15	86.3%	-42.3%	-6.4%	227,782,445	\$2.81	36,296,360	\$4.56	\$532,103,613	\$21,281,466	\$553,385,079
2012Q2	283,790,829	\$1,482,450,406	\$5.22	88.7%	-64.6%	-1.6%	251,806,710	\$1.72	31,984,119	\$4.80	\$881,591,809	\$13,680,541	\$895,272,350
2012Q3	286,007,757	\$1,495,738,212	\$5.23	90.4%	-66.2%	2.4%	258,629,344	\$1.65	27,378,412	\$4.99	\$926,628,181	\$6,527,848	\$933,156,029
2012Q4	296,550,930	\$1,616,111,381	\$5.45	92.4%	-68.5%	-0.2%	273,957,679	\$1.53	22,593,251	\$4.86	\$1,072,607,233	\$13,286,355	\$1,085,893,588
2013Q1	248,813,414	\$1,376,691,190	\$5.53	93.6%	-71.5%	3.1%	232,896,406	\$1.39	15,917,008	\$5.02	\$965,340,841	\$8,125,703	\$973,466,544
2013Q2	284,597,553	\$1,634,614,615	\$5.74	94.6%	-71.9%	14.7%	269,165,137	\$1.37	15,432,416	\$5.59	\$1,177,133,685	\$2,354,296	\$1,179,487,982
2013Q3	262,674,071	\$1,518,078,347	\$5.78	95.4%	-71.4%	16.1%	250,568,321	\$1.39	12,105,749	\$5.66	\$1,099,494,407	\$1,467,229	\$1,100,961,635
2013Q4	257,215,820	\$1,514,653,791	\$5.89	%9.96	-75.9%	19.3%	248,532,972	\$1.17	8,682,847	\$5.82	\$1,171,911,705	\$632,740	\$1,172,544,444
2014Q1	167,838,379	\$1,006,690,517	\$6.00	%2'96	-75.9%	18.8%	162,242,253	\$1.17	5,596,126	\$5.79	\$782,760,960	\$1,161,061	\$783,922,021

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Quarter	(Secondary)		Sales Price	Market	Price	Price	Price Generic Units	Price	Brand Units	Price	Brand-Generic	Brand-Brand	Total
	(Pills)	Net Sales	(\$/Pill)	Share	Change	Change	(Pills)	(\$/Pill)	(Pills)	(\$/Pill)	Overcharges		Overcharges
2012Q1 264,0	378,806	264,078,806 \$1,359,897,049	\$5.15										
	283,790,829	\$1,482,450,406	\$5.22	64.6%	-40.8%	-2.0%	183,416,018	\$3.05	100,374,811	\$5.05	\$398,743,252	\$17,867,337	\$416,610,589
	286,007,757	\$1,495,738,212	\$5.23	86.3%	-42.3%	-6.4%	246,697,368	\$2.97	39,310,389	\$4.82	\$556,645,532	\$16,013,225	\$572,658,757
	296,550,930	\$1,616,111,381	\$5.45	88.7%	-64.6%	-1.6%	263,128,708	\$1.82	33,422,222	\$5.07	\$954,947,687	\$12,746,154	\$967,693,841
	248,813,414	\$1,376,691,190	\$5.53	90.4%	-66.2%	2.4%	224,995,471	\$1.74	23,817,942	\$5.27	\$853,329,038	\$6,153,293	\$859,482,331
2013Q2 284,58	284,597,553	\$1,634,614,615	\$5.74	92.4%	-68.5%	-0.2%	262,914,991	\$1.62	21,682,562	\$5.14	\$1,083,738,990	\$13,138,312	\$1,096,877,302
		\$1,518,078,347	\$5.78	93.6%	-71.5%	3.1%	245,870,373	\$1.47	16,803,697	\$5.31	\$1,060,296,223	\$7,925,119	\$1,068,221,343
2013Q4 257,2	257,215,820	\$1,514,653,791	\$5.89	94.6%	-71.9%	14.7%	243,268,189	\$1.45	13,947,630	\$5.91	\$1,080,237,493	0\$	\$1,080,237,493
2014Q1 167,8;	167,838,379	\$1,006,690,517	\$6.00	95.4%	-71.4%	16.1%	160,103,282	\$1.47	7,735,097	\$5.98	\$724,892,863	\$143,821	\$725,036,684

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Exhibit 3

Rebuttal Declaration of Raymond S. Hartman

EXECUTIVE SUMMARY

I have been asked by counsel for the named plaintiffs and the Class of direct purchasers in this matter¹ to review and analyze the report submitted by defendants' expert, Dr. John H. Johnson, IV.² Having reviewed and analyzed his report, I conclude that my opinions regarding class-wide impact, injury and damages and the appropriate class-wide methodology and data remain unchanged.

Specifically, Dr. Johnson offers opinions regarding variability in the prices of Nexium and variation among Class members, incorrectly concluding that class-wide impact cannot be proven using a common methodology³ and class-wide data, and that class-wide damages cannot be calculated on an aggregate basis. These opinions fail as a matter of economics, economic modeling and the standard analytic business practices of the pharmaceutical manufacturers.

If the generic for Nexium had come to market but-for the challenged conduct, it would have sold for substantially lower prices than branded Nexium and would have captured the vast majority of branded sales. All or virtually all Class members would have purchased the generic at substantially lower prices. As I discussed in my prior declaration on class certification issues:

- (1) data on the quantities of branded Nexium purchased by Class members and the prices they paid were obtained from defendant AstraZeneca;
- (2) numerous government and academic studies have shown time and time again that generics quickly replace brands and at prices substantially below the pre-generic brand price, including a 2010 study by the FTC that found that, on average, within a year

¹ In re: Nexium (Esomeprazole) Antitrust Litigation; MDL No. 2409, Civil Action No. 12-md-02409-WGY, US District Court for the District of Massachusetts. I understand that Dr. Johnson's report is in response to my Declaration in Support of the Certification of the Class of Direct Purchasers of Nexium submitted July 26, 2013 (hereafter Hartman July 2013 Declaration). Also note that subsequent to my July 2013 Declaration I received updated chargeback data, and I revised my calculations accordingly in Supplemental Declaration of Raymond S. Hartman in Support of the Certification of the Class of Direct Purchasers of Nexium, August 15, 2013 (hereafter Hartman Supplemental). I understand that this supplemental report was inadvertently not served on defendants, although my later merits report on damages, dated August 23, 2013, was and that report also incorporates complete chargeback data.

² Expert Report of Dr. John H. Johnson, IV on Direct Purchaser Class Certification, September 11, 2013 (hereafter Johnson Report).

³ By "common methodology" or "common evidence" in this report, I mean common to the proposed direct purchaser class as a whole (as distinguished from methodologies or evidence that are individual to its members).

of generic entry, generics capture 90% of the brand's prescriptions and generic prices are 85% lower than the pre-generic brand prices;⁴

- (3) defendants' own internal forecasts of the effects of entry of generic versions of Nexium show that defendants expected much this same pattern to apply to Nexium upon generic entry;
- (4) AstraZeneca explicitly looked to data regarding "analogs" or other drugs that have undergone generic competition in order to model the expected effects of generic entry on Nexium, the same approach I take in using the benchmark drug Prevacid; and
- (5) Class members here are all resellers and primarily wholesalers serving a wide customer base that includes pharmacies, and because pharmacies (and other purchasers) would need to stock at least some amount of generic Nexium when it became available, so too would wholesalers.⁵

All of this common evidence shows that, if a generic form of Nexium had been available by now, all or virtually all Class members would have purchased some amount of the generic at a price below the brand.⁶ Hence, conduct that unlawfully prevented a generic version of Nexium from coming to market caused all or virtually all Class members to suffer antitrust impact in the form of overcharges.

Dr. Johnson does not dispute the findings of the government and academic studies concerning the effects of generic competition, nor the conclusions of defendants' own forecasts or their use of analog drugs. He cites one class member, DMS Pharmaceutical Group Inc., which received an average net price on Nexium that is below the but for prices that I have calculated for generic Nexium. But even DMS paid an average brand price far above AstraZeneca's estimate of its internal cost of producing its own "authorized generic" version of Nexium, strongly suggesting that a generic would have underpriced Nexium even for DMS. In short, nothing Dr. Johnson offers can change the fundamental facts of generic competition – demonstrated time and again – that generics rapidly replace the brand and at substantially lower prices. No individualized inquiry of Class members is needed to conclude that this same pattern would have occurred with generic forms of Nexium. Similarly, as I set forth in my prior report, damages may be

⁴ FTC, Pay-for-Delay: How Drug Company Pay-Offs Cost Consumers Billions, An FTC Staff Study, January 2010.

⁵ Dr. Johnson testified that he is not aware of any pharmacy in the United States that buys only branded drugs (Deposition of John Johnson, September 13, 2013 (hereafter Johnson Deposition), p. 33). Nor am I.

 $^{^6}$ Also note that I find that the Class would have been overcharged on brand purchases as well (Hartman July 2013 Declaration, \P 63).

⁷ See NEX-RBX 3514340-2 at 40. The implied cost of manufacturing an authorized generic capsule in this document is approximately \$0.15 per capsule.

⁸ Dr. Johnson also discussed Good Samaritan Hosp. & Hlth, but as I discuss below, that class member paid an average net branded price that is higher than my estimate of the but for generic price at the time of that class member's brand purchase (October 2008). Thus, Dr. Johnson's critique amounts to a claim that one class member (DMS) perhaps was not overcharged.

reliably calculated on an aggregate, class-wide basis for the same reasons, namely, the predictability of the effects of generic competition. I presented such a calculation in my opening report (revised in my merits report dated August 23, 2013).

Dr. Johnson claims there is variation in the net brand prices Class members paid for Nexium, and likely would be variation in the prices and quantities of generic Nexium they would have purchased had generics become available. Such variation is beside the point. Common evidence still shows that all or virtually all Class members would have purchased some amount of generic Nexium at a price below the brand, had generics been available in 2008 or other times that Plaintiffs allege. And common evidence, including the use of an analog or benchmark drug (Prevacid), can still permit the reliable calculation of class-wide damages on an aggregate basis (as I demonstrate below). Whether Class members paid different prices for Nexium, or would have paid different prices for generic esomeprazole magnesium or purchased different amounts of the generic, are issues that are irrelevant to the calculation of class-wide damages on an aggregate basis, or to the proof of class-wide antitrust impact through predominantly common evidence. Variation may be addressed, as needed, in connection with the allocation of damages after a trial has set the amount of class-wide damages, but does not affect or detract from the accuracy of the aggregate calculation or the proof of class-wide antitrust impact.

As demonstrated in this rebuttal declaration, after critiquing Dr. Johnson's report, I continue to conclude the following:

- Class-wide analysis can be done despite possible variations among Class members.
- Class-wide damage calculations may be done using standard and well-accepted methodologies. Defendants are incorrect in suggesting that damages can only be calculated by summing the damages of each individual Class member. Their assertions contradict basic economic, statistical and business premises.
- As a matter of economics, my damage calculations are reliable and a reasonable calculation of aggregate Class damages. My assumptions regarding my yardsticks for generic penetration and generic price erosion are all appropriate. Furthermore, my damages methodology is adaptable to alternative but-for world scenarios. Thus, if the facts regarding, *e.g.*, but-for generic entry, turn out to be different from my assumptions, I can easily adjust my model to accurately calculate damages.
- All Class members who purchased Nexium in the actual world were foreclosed from the opportunity to switch to the generic form. All or virtually all would have purchased some amount of the generic had it become available. While the variations across different purchasers may produce different prices and quantities over time, the difference between the patent-monopoly price of Nexium and the competitive but-for price of esomeprazole magnesium is sufficiently great over the Damage Period that all or virtually all Class members who would have

switched to the generic were overcharged by being prevented from buying the generic.

In what follows, I review and analyze Dr. Johnson's expert report. After presenting my qualifications in Section I, I summarize my analysis in Section II. In the subsequent Sections III and IV, I address in more detail Dr. Johnson's assertions and demonstrate how and why they fail. I find that his report does not alter my conclusions that, given the facts and characteristics of the antitrust market at issue here and given the nature of the alleged unlawful acts by the defendants, common evidence shows that all or virtually all members of the Class of direct purchasers would have switched from Nexium to the generic form of esomeprazole magnesium and they paid more for Nexium than they would have paid for the generic absent the alleged generic foreclosure by the defendants and consequently suffered antitrust injury.

I. QUALIFICATIONS

- 1. My name is Raymond S. Hartman. I am Director and President of Greylock McKinnon Associates (GMA), a consulting and litigation support firm located in Cambridge, Massachusetts.
- 2. Since I have presented my qualifications in my affirmative declaration of July 26, 2013, I do not repeat them here. I had access to additional discovery materials produced in this matter and considered a variety of additional materials in forming my opinions expressed here. Attachment A summarizes the additional materials I have relied upon and cited.

II. OVERVIEW AND SUMMARY

- 3. The analysis and assertions made by the defendants' expert fail for the following reasons, which I develop more fully in Sections III and IV below.
- 4. Dr. Johnson suggests, incorrectly, that this marketplace is so complicated and is characterized by so much variation across purchasers, their contracts, and customers, that aggregate class-wide analysis is simply impossible. Dr. Johnson spends virtually his entire report developing all the ways that direct purchasers may differ. Dr. Johnson implies that it is impossible to make any generalizations about drug markets without examining every transaction related to every purchase by every direct purchaser and their customers at every point in time.
 - These assertions make no sense. As I discuss below, this market is less complex than many markets and, most importantly, the basic effects of generic competition sharply lower prices and a rapid switch in purchases from the brand to the generic have been repeatedly demonstrated and at this point are beyond genuine scientific dispute. Even the simplest market for a homogeneous product is characterized by some variations across sellers, buyers, transactions and prices.

For that reason, analyses of all markets make use of measures (e.g., averages) summarizing the dispersions of variables due to variations.

- Dr. Johnson appears to be suggesting that class actions are just impossible because economic analysis is impossible unless every individual is analyzed and the results summed to market results. That conclusion makes no sense, given the clear reliance by the economics profession upon aggregate statistical models that summarize patterns across large groups of individuals. Over the last sixty years, quantitative economists have developed standard methods of characterizing such variation, *using sample data*, *not data for the entire population* being studied. This marketplace, the institutional entities in this market and the products in the marketplace are not more complicated or subject to more variations than other markets for which statistical analysis has been performed and used for policy analysis and in support of litigation.
- Variability may exist in the quantum of damages experienced by Class members. But that does not diminish an economist's ability to perform an accurate calculation of class-wide damages. That calculation can indeed be performed using average prices and the methods I originally implemented. This aggregate calculation is not vitiated by variation in prices, customer, or purchasing power among Class members. The use of average prices and market shares found in my July 2013 Declaration is common to an extensive literature analyzing aggregate economic impact in markets with as much variability as this market or more. Indeed, as I demonstrate below, the use of averages yield exact measures of damages summed over all relevant class members.
- The methods that I used are common to the economics profession. Indeed, methods similar to those that I have used have been used by the defendants in their own analyses with respect to Nexium and the expected effects of generic competition to Nexium.
- 5. The defendants appear to argue that class-wide damage calculations must be composed of a summing of individualized damage calculations.
 - Dr. Johnson confuses the calculation of aggregate class-wide damages with the plan of distribution that will govern the amounts of damages to be assigned to individual Class members after trial.
 - As I understand it, the relevant questions at this point are whether antitrust impact may be demonstrated on a class-wide basis using evidence and methodologies that are predominantly common and class-wide rather than individual, and whether damages to the proposed class as a whole may be reliably calculated on an aggregate, class-wide basis. The answer to both questions is "yes." There is no need to proceed by calculating and summing the individual damages of each and every Class member for each and every transaction. Again, as I noted above, I will demonstrate below that the use of averages yields exact measures of damages summed over all relevant Class members.

- After an award of aggregate damages to the Class, there can be a plan to allocate damages to Class members in a fair and reasonable way according to applicable legal standards. I have assisted in preparing such plans in the past and, if asked, will do so here. Those considerations are not currently addressed because they are not issues that affect the amount of aggregate Class damages or the fact of antitrust injury.
- 6. Dr. Johnson asserts that my damage calculations are incorrect for a variety of reasons. He is wrong. Given the assumptions I have taken as my point of departure, my choices of market yardsticks for generic penetration and for generic price erosion are appropriate. Because there has not yet been generic entry for Nexium, I use another drug as a yardstick or benchmark, just as AstraZeneca itself has done. The yardsticks I have chosen are appropriate for the calculation of damages in this matter. They accord with market patterns found with generic entry for other molecules.

III. MY FORMULAIC METHODS CAN BE USED TO DETERMINE DAMAGES ON AN AGGREGATE CLASS-WIDE BASIS

A. Arguments by Dr. Johnson

- 7. Dr. Johnson suggests, incorrectly, that the variation in the terms of purchase and the characteristics of the horizontal and vertical entities in this market make it impossible to calculate class-wide damages. If one were to believe this assertion, one would conclude that the markets for pharmaceutical products are so extraordinarily complex, complicated and variegated that they defy quantitative analysis, strategic analysis and market forecasting. In fact, the suggestion is contradicted by the numerous studies that have examined the effects of generic competition, and the studies of defendants themselves looking at the expected effects of generic competition for Nexium. The effects of generic competition have been extensively studied, and reliable conclusions have been reached, without the need to examine each individual purchaser or price paid.
- 8. Dr. Johnson asserts, incorrectly, that he has "examined the data and find[s] that there are major variations on many crucial factors, such that Dr. Hartman's methodology cannot prove that all class members were injured, or the amount of their damages." He also mischaracterizes my testimony by stating that, by using averages and yardsticks relating to generic penetration, I have assumed that there is "uniform" pricing among Class members, "uniformity" of generic switching among Class members, and that generic prices have a "constant" relationship to brand prices. 11

⁹ However, Dr. Johnson testified that he was not offering some general opinion that the calculation of aggregate damages is impossible in a class action (Johnson Deposition, pp. 82-83).

¹⁰ Johnson Report, ¶ 7.

¹¹ Johnson Report, ¶¶ 16 and 28-34.

B. The Arguments of Dr. Johnson Fail

- 9. The basic, fundamental and market-wide effects of the entry of AB-rated generic drugs (including an authorized generic) are simple and unmistakable. Within a short time, the vast bulk of prescriptions for the brand are filled with the generic, at prices that are substantially below the pre-generic brand price. Given the predictable and market-wide effects of generic competition, it is not difficult for an economist to model the expected effects of generic competition for a particular brand drug, and I have done so here and in my prior work. I have proffered models and methods that have abstracted from the complexities of these markets to allow me to opine on class-wide impact and calculate class-wide damages in a variety of matters.¹² The consulting analyses conducted by Drs. Schondelmeyer and Wrobel of Abt Associates have done the same.¹³ This is just one of many research articles, published papers and consulting reports that address the issues arising within these markets.
- 10. Dr. Johnson's implication that this industry is too complex to allow for industry-wide analysis is contradicted by the numerous studies that have examined the effects of generic competition, as well as by the forecasts developed by defendants themselves.
- 11. Indeed, all econometric analysis and forecasting of markets proceeds on the basis that it is not necessary to individually examine each individual transaction or potential transaction in order to develop and reach reliable conclusions about the expected effects of various market events. For example, econometric analysis is designed to rely upon sample data for a limited number of variables, rather than all data summarizing all information for a population being studied. In this sense, it is analogous to the calculation of averages in this matter. Averages are used to characterize the variability and draw conclusions about aggregate economic impacts. Defendants themselves used averages and aggregate data in their business planning and did not examine individual transactions or variation in reaching market-wide conclusions about the expected effects of generic competition for Nexium. If Dr. Johnson were correct, then it would seem that antitrust damages can never be calculated for a class or for a large distinct group of plaintiffs, unless every purchase by every buyer is separately analyzed.

¹² See, for example, *In re Pharmaceutical Industry Average Wholesale Price Litigation*, United States District Court for the District of Massachusetts, MDL No. 1456, Civil Action: 01-CV-12257-PBS; *In re Lupron Marketing and Sales Practices Litigation*, United States District Court for the District of Massachusetts, MDL No. 1430, Case No. 01-CV-10861; *In re Buspirone Antitrust Litigation*, United States District Court for the Southern District of New York, MDL No. 1413; *In re Relafen Antitrust Litigation*, United States District Court for the District of Massachusetts, Master File No. 01-CV-12222-WGY; *Susannah K. Alexander, et al.*, v. *Solvay Pharmaceuticals, Inc.*, Superior Court of the State of California for the County of Los Angeles, Case No. BC 300364. The Alexander Action was consolidated with the case of *Dr. Sherrel Howard v. Solvay Pharmaceuticals, Inc. et al.*, Superior Court of the State of California for the County of Los Angeles, Case No. BC 325120; and *In re Terazosin Hydrochloride Antitrust Litigation*, United States District Court for the Southern District of Florida, Case No. 99-MDL-1317 Seitz/Garber.

¹³ Stephen W. Schondelmeyer and Marion V. Wrobel, "Medicaid and Medicare Drug Pricing: Strategy to Determine Market Prices, Final Report," Abt Associates Inc., Prepared for Centers for Medicare and Medicaid Services, 2004.

- 12. All real-world markets are characterized by variability. That does not render the use of averages inappropriate or mean that one cannot draw valid conclusions from averages. The opposite is true.
- 13. More specifically, a scientific paper by Alan Sorenson¹⁴ analyzes variations in retail markets for prescription drugs in New York State. Not surprisingly, the research finds variation in the prices of prescription drugs in two towns in New York State. Any student of pharmaceutical markets understands that such variation exists.
- 14. The relevant question is whether such variation, or any variation, prevents the analysis of common economic impacts. The very first sentence of the Sorenson article states, "The proverbial 'law of one price' is virtually never empirically valid. Homogeneous goods are often sold at widely different prices by rival firms, even in environments that seem particularly conducive to economic competition." Hence, variation characterizes even the most simple homogeneous-product markets.
 - a) If the position of Dr. Johnson is that no quantitative analysis can be conducted without data on each and every transaction and potential transaction of every member of a population being studied, under every possible condition in which transactions took place, little or no economic analysis would ever be possible. Such a contention is meritless.
 - b) If Dr. Johnson's position is that no analysis making use of average prices and average market shares is possible in markets in which there exists price variability (that is, in markets that do not conform to the proverbial "law of one price"), the logical conclusion is that innovator and generic drug manufacturers would never waste resources to develop and rely upon yardstick models that calculate and forecast average price discounts that will be offered by generic manufacturers; the market share that will be captured by generics; the market share that will be retained by the branded drug; or the average net price at which the innovator drug manufacturer will be able to sell the branded drug.

This conclusion is obviously wrong. All drug manufacturers, including the defendants, develop such models and make such calculations as a regular part of their business planning.¹⁵

c) If the position of Dr. Johnson is that no analysis making use of average prices and average market shares is possible in markets in which there exists price variability (that is, in markets that do not conform to the proverbial "law of one price"), the

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¹⁴ A. Sorensen, "Equilibrium Price Dispersion in Retail Markets for Prescription Drugs," *Journal of Political Economy*, 108(4), pp. 833-850, August 2000.

 $^{^{15}}$ See the following as cited in Hartman July 2013 Declaration, \P 32: NEX-RBX 3514366, NEX-RBX 3505840 - 850, DRLMDL 179342-348, RAN-ESM 0194086 - 105 at 087-088, RAN-ESM 0134201 - 220 at 202-203, RAN-ESM 0462697-725 at 705-706 and Teva-ESO-065243.

logical conclusion is that none of the scientific research cited in my July 2013 Declarations in this matter is valid. 16

This conclusion is untenable as that research is widely recognized as the leading research in its field.

d) If Dr. Johnson's position is that aggregate antitrust damages cannot be readily calculated or analyzed in markets in which there exists price variability (that is, that do not conform to the proverbial "law of one price"), the logical conclusion is that antitrust damages can never be calculated. ¹⁷ That conclusion is untenable.

15. I conclude therefore the following:

- a) The belabored recitation by Dr. Johnson of variability is contrived and fails. All markets are characterized by variability, even the most simplistic competitive markets with homogenous products. Economists have spent the last 60 years developing and using what have become standard quantitative methods to summarize market impacts and market changes in terms of average prices, market shares and aggregate calculations, without studying each and every consumer purchase by day of purchase, point of sale, and reason for purchase. The market for the delayed-release esomeprazole magnesium in the United States is no different. This market is certainly no more complicated than many markets subjected to standard economic analyses; no more complicated than many markets in which classes have been certified; and no more complicated than many markets in which aggregate antitrust damages have been calculated. Indeed, this market is less complicated and varied than others that have been subject to economic analysis.
- b) The methods that I have used in my July 2013 Declaration are standard economic methods for analyzing and calculating the aggregate economic impact of the butfor entry of generic esomeprazole magnesium. These calculations are then used to accurately measure overcharge damages incurred by the Class as a whole.

¹⁶ See the following as cited in Hartman July 2013 Declaration, footnote 39: Federal Trade Commission (FTC), Generic Drug Entry Prior to Patent Expiration: An FTC Study, July 2002; FTC, Pay-for-Delay: How Drug Company Pay-Offs Cost Consumers Billions, An FTC Staff Study, January 2010; D. Suh, W. Manning, S. Schondelmeyer, and R. Hadsall, "Effect of Multiple-Source Entry on Price Competition After Patent Expiration in the Pharmaceutical Industry," *Health Services Research*, 35(2), 2000, pp. 529-547; Congressional Budget Office (CBO), "How Increased Competition From Generic Drugs Has Affected Prices and Returns in the Pharmaceutical Industry," Washington D.C, July 1998; H. Grabowski and J. Vernon, "Brand Loyalty, Entry, and Price Competition in Pharmaceuticals after the 1984 Drug Act," *Journal of Law and Economics*, 35(2), 1992, pp. 331-350; R. Frank and D. Salkever, "Generic Entry and the Pricing of Pharmaceuticals," *Journal of Economics and Management Strategy*, 6(1), 1997, pp. 75-90; R. Caves, M. Whinston, and M. Hurwitz, "Patent Expiration, Entry, and Competition in the U.S. Pharmaceutical Industry," *Brookings Papers: Microeconomics*, 1991, pp. 1-48; D. Reiffen and M. Ward, "Generic Drug Industry Dynamics," *Review of Economics and Statistics*, 87(1), 2005, pp. 37-49; and A. Saha, H. Grabowski, H. Birnbaum, P. Greenberg, and O. Bizan, "Generic Competition in the US Pharmaceutical Industry," *International Journal of the Economics of Business*, 13(1), 2006, pp. 15-38.

¹⁷ Dr. Johnson does not appear to be asserting this (Johnson Deposition, pp. 82-83).

- c) While the variations across different purchasers may produce different amounts paid over time, the point is that at any specific moment in time in the but-for world, the generic form of esomeprazole magnesium would have been cheaper than the branded form. The difference between the patent-monopoly price of Nexium and the but-for price of generic esomeprazole magnesium is such that in my opinion all or virtually all Class members purchasing Nexium experienced antitrust injury because they would have purchased some amount of generic Nexium had it been available, and at a price below the price of the brand. By being prevented from buying the less expensive generic version of Nexium, therefore, class members were overcharged.
- d) Dr. Johnson identifies one direct purchaser (DMS Pharmaceutical Group) with a low average net price and defendants claim that this purchaser did not experience antitrust injury because they compare this price to the average but-for generic price.¹⁸ Standard economic theory suggests that this purchaser, given its contracts with such entities as those under the Department of Defense (DOD), would likely have paid still-lower but-for generic prices than the average. ¹⁹ Further, this purchaser would likely have also paid lower branded prices in the but-for world, as it would continue to realize net prices based on special DOD pricing. Also, as mentioned above, the DMS net price is still well above the per-unit cost of an authorized generic version of Nexium, which shows that there was ample room for its net pricing to be competed down further in the but-for world compared with the actual world. In summary, it is likely that DMS was injured because it would have paid even lower brand prices in the but-for world, or, alternatively, it would have paid prices for the generic that were lower than the pre-generic brand prices it actually paid. That DMS has paid pre-generic brand prices that are lower than the average but-for generic prices I have calculated is simply not determinative.
- e) Dr. Johnson also suggests that Good Samaritan Hospital & Health might not have been injured because it might not have purchased any generic. However, Dr. Johnson fails to note that the average price paid by Good Samaritan for Nexium, \$1.94 per pill,²⁰ was paid in 2008Q4, during which the but-for generic price I calculated was much lower: \$1.55 per pill.²¹ Therefore, on average, the price that would have been paid by Good Samaritan Hospital for generic esomeprazole magnesium would have been less than what it paid for Nexium, thus indicating

¹⁸ Johnson Report, footnote 22.

¹⁹ The prices available to the Department of Defense and the Veterans' Administration are subject to significant price concessions that would most likely affect generic Nexium as well. See General Accountability Office, Comparison of DOD and VA Direct Purchase Prices, April 2013, p. 4.

²⁰ Johnson Report, Exhibit 6.

²¹ Supplemental Declaration, Attachment C.3.

- that Good Samaritan Hospital was injured by being unable to purchase the less expensive generic.²²
- f) My opinion remains unchanged: all or virtually all Class members suffered antitrust injury assuming generic competition for Nexium was unlawfully delayed.

C. Reliance upon Market-Wide Averages Provides Exact Measures of Damages

- 16. Let me demonstrate how the reliance upon market-wide averages can and does provide *exact measures* of overcharge damages that would be calculated if I identified and added up the damages of each and every direct purchaser.
- 17. Dr. Johnson suggests that substantial variation among the prices paid by direct Class members makes the accurate calculation of aggregate damages impossible, thus implying that one must calculate and sum the damages incurred by each purchaser. This assertion does not withstand scrutiny.
- 18. To demonstrate, consider the following hypothetical below: Four direct purchasers pay varying prices per unit for varying quantities of a branded product in the actual world. They then purchase varying amounts of the generic product in the but-for world, and their switched generic purchases fall on different positions on the generic price distribution curve. Prices are in given terms of dollars per unit (*e.g.*, a bottle of 30 pills).

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²² In addition, I note that Dr. Johnson concedes that DMS Pharmaceutical Group and Good Samaritan Hospital would be class members in only the first but-for entry scenario. Thus, Dr. Johnson's concerns as to the price variability reflected in the pricing patterns for these Class members disappear entirely for the second and third proposed but-for entry scenarios. See Johnson Report, Exhibit 3 on p. 13.

		Actual World	1			But-I	For World		
Purchaser	Brand Quantity	Brand Price	Total Spending	Generic Share	Generic Quantity	Generic Price	Brand Quantity	Brand Price	Total Spending
Customer A	250	\$100.00	\$25,000	90%	225	\$70.00	25	\$95.00	\$18,125
Customer B	50	\$110.00	\$5,500	70%	35	\$60.00	15	\$109.00	\$3,735
Customer C	100	\$105.00	\$10,500	80%	80	\$80.00	20	\$105.00	\$8,500
Customer D	1,000	\$100.00	\$100,000	50%	500	\$50.00	500	\$100.00	\$75,000
Weighted Avg.		\$100.7143				\$58.631		\$100.1964	
Totals	1,400		\$141,000		840		560		\$105,360

Overcharge Calculations

Totals by Individual Purchaser:

Customer A: (\$100 - \$70)*225 + (\$100 - \$95)*25 = \$6,875 Customer B: (\$110 - \$60)*35 + (\$110 - \$109)*15 = \$1,765 Customer C: (\$105 - \$80)*80 + (\$105 - \$105)*20 = \$2,000 Customer D: (\$100 - \$50)*500 + (\$100 - \$100)*500 = \$25,000

Total = \$35,640

Total Using Aggregate Averages:

(\$100.7143 - \$58.631) * 840 + (\$100.7143 - \$100.1964) * 560 = \$35,640

19. We learn the following from this hypothetical:²³

- Use of averages provides an exact measure of aggregate damages calculated by analyzing each and every class member.
- This is true even though both brand and generic prices vary across each class member.
- This is true even though each class member has a different generic substitution percentage.
- The accurate calculation of aggregate damages does not require that purchasers maintain their comparable positions with respect to each other on the brand price distribution curve and the generic price distribution curve.

20. I conclude the following.

a) As a matter of mathematical equivalence, the summation of individual damage measures to the purchasers on each and every transaction subject to damages can be calculated exactly by either summing up all of those damages or by taking the average measure of damages to the Class members and multiplying times the

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²³ This hypothetical is only an illustrative example used to show how average prices summarize Class member experiences, and I am not suggesting that prices and quantities for actual Class members would have varied as they do here.

- number of transaction (units) subject to damages. This is true regardless of the number of class members or the extent of the variation among class members.
- b) Economists, businesses and governments use averages routinely to make reliable calculations and forecasts, as I have done.
- c) The hypothetical that I used was for four purchasers, but this hypothetical can be extended in any way and the results would be the same. Using averages yields accurate class-wide damages regardless of the variation in prices or other components of the purchasers.
- d) Any suggestion by Dr. Johnson that aggregate analysis cannot accurately measure the totality of individualized behavior (based upon individualized financial considerations) of many varied entities is incorrect.

D. My Methodology and Data Are Standard, Correct and Used Extensively

- 21. My calculations of aggregate class-wide damages are appropriate and accurate for the but-for world I was asked to assume for the antitrust market I have appropriately defined.²⁴ I have formulated, estimated, and implemented models to assess generic penetration and generic price erosion. The models are standard to the scientific literature; to the strategic business forecasting analyses conducted by defendants and essentially all drug manufacturers; and to the damage analyses I have submitted in other litigation in which I have testified.²⁵ I have estimated the models using AstraZeneca's transactional data and IMS data, data which are considered the gold standard data for this industry. I have used the type of data that the defendants themselves used in their strategic planning for Nexium and its generic during the relevant period.²⁶
- 22. While variability may exist in the quantum of damages experienced by different groups of eligible Class members at different times during the Damage Period (as it does in every class action), that variation does not prevent the reliable calculation of aggregate damages.
- 23. I have performed and presented that calculation of aggregate damages in my July 2013 Declaration.²⁷ The use of average prices and market shares upon which I have relied is common to an extensive literature analyzing aggregate economic impact in markets with as much variability as this market. The methods that I have used are common to the economics profession.

²⁴ See Report of Raymond S. Hartman on Market Definition, August 23, 2013.

²⁵ For examples, see Hartman July 2013 Declaration, footnotes 2-28.

²⁶ See footnote 15 above.

²⁷ I have also presented revised calculations in my Report of Raymond S. Hartman, Calculation of Damages for the Class of Direct Purchasers of Nexium, August 23, 2013.

24. I understand that at a later time in this litigation, I may be asked to allocate damages between Class members. I have performed such analyses of allocation before. I can do so here. My allocation analyses have been accepted by a variety of Courts in the past.²⁸

E. All or Virtually All Class Members Suffered Antitrust Injury

- 25. Entry of the AB-rated generic form of any branded incumbent molecule is the single most significant event creating economic benefit to customers already buying the incumbent drug. That benefit is a substantial reduction in the price of the molecule. Foreclosure and delay of generic entry have been and are injurious to purchasers of Nexium. That injury has been substantial.
- 26. Plaintiffs allege that had it not been for the defendants' alleged illegal activities, generics would have launched well before today. Had generic competition begun, the prices of esomeprazole magnesium would have dropped substantially.
- 27. Instead, generic launch was delayed, allegedly unlawfully. As a result, AstraZeneca maintained its patent monopoly position and prices that would have resulted for the esomeprazole magnesium molecule stayed well in excess of the prices had the generics launched. Had generic entry occurred, all or virtually all Class members would have substituted at least some amount of the less expensive generic for their purchases of the brand. Hence, conduct that unlawfully delayed generic competition has resulted in all or virtually all Class members suffering antitrust injury in the form of overcharges.
- 28. I conclude that all or virtually all members of the Class suffered an injury in the form of paying higher prices for esomeprazole magnesium (sold as Nexium) than they would have had there been no delay in the entry of generic esomeprazole magnesium. The factors that affected this injury are common to the Class as a whole. Similarly, as shown in my July 2013 Declaration, I have calculated class-wide damages based on available class-wide data that did not require the use of data about individual Class members.

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²⁸ For examples, *In re Lupron Marketing and Sales Practices Litigation*, United States District Court for the District of Massachusetts, MDL No. 1430, Case No. 01-CV-10861; *In re Relafen Antitrust Litigation*, United States District Court for the District of Massachusetts, Master File No. 01-CV-12222-WGY; *HIP Health Plan of Florida, Inc., On Behalf of Itself and All Others Similarly Situated v. Bristol-Myers Squibb Co. and American Bioscience*, United States District Court for the District of Columbia, Case No. 1:01CV01295; *In re Buspirone Antitrust Litigation*, United States District Court for the Southern District of New York, MDL No. 1413; *In re Remeron Antitrust Litigation*, United States District Court for the District of New Jersey, Master Docket No. 02-CV-2007; *In re New England Carpenters Health Benefits Fund, et al., v. First Databank, Inc., and McKesson Corporation*, United States District Court for the District of Massachusetts, C.A. No. 1:05-CV-11148-PBS; and *In re Tricor Indirect Purchaser Antitrust Litigation*, United States District Court for the District of Delaware, CA No. 05-360 (KAJ).

IV. OTHER ITEMS RAISED BY DR. JOHNSON

29. Dr. Johnson raises several other issues that I discuss here.

The Class has a limited number of members

30. Dr. Johnson says that the Class would have between 24 and 29 Class members depending on the start date for the calculation of damages.²⁹ The issue of numerosity, however, is a legal matter as I understand it.

Dr. Johnson incorrectly claims that I have ignored Class differences

- 31. Dr. Johnson claims that I have ignored variation among Class members and have done no analysis regarding this variation. As discussed above in Section III, the particular forms of variation to which Dr. Johnson alludes are not relevant to the calculation of class-wide aggregate damages or the proof of antitrust impact on a common, class-wide basis. The issues to which he alludes are issues that will and can be addressed instead at the allocation phase of this litigation.
- 32. Dr. Johnson criticizes my assertion that, as he puts it, "firms that pay relatively low brand prices also pay relatively low generic prices." In other words, he disagrees with my point that a particular firm would maintain its relative position on both the brand and generic price distribution curves. Here again, this is not important for the determination of impact and the calculation of aggregate damages. As mentioned above in Section III, any variation of the prices paid is appropriately captured in the average. Given that generic esomeprazole magnesium prices would have been dramatically lower than branded Nexium prices, and given that the vast majority of purchases would have switched to the generic, it is my opinion that all or virtually all Class members experienced impact and have been harmed, regardless of their relative positions on the price distribution curves.

Dr. Johnson incorrectly criticizes my assumptions about generic switching

33. Dr. Johnson criticizes my assumption that "with generic entry, the branded drug would lose sales only to the generic equivalent." He claims that not all units that would have switched away from Nexium in the but-for world would have switched to generic esomeprazole magnesium, *i.e.*, he claims some units would have switched to some other drug. To support this, he mentions a document relating to my yardstick drug, Prevacid. Dr. Johnson states that "it appears that as much as 20% of the net losses from brand Prevacid went to products other than its own generic" such as "brand Nexium, brand Dexilant, and generic Prilosec." However, Dr. Johnson fails to note that branded

²⁹ Johnson Report, ¶¶ 11-13.

³⁰ Johnson Report, ¶ 28.

³¹ Johnson Report, ¶ 38.

³² Johnson Report, ¶ 38.

Dexilant is a line-extension of Prevacid,³³ and consequently there is no doubt the manufacturer of Prevacid made a particular effort to convert sales to this new drug. I am unaware of any evidence that there would have been a line extension for Nexium in any of the but-for scenarios I have been asked to analyze. Regardless, the yardstick I use, which focuses on the relative shares between Prevacid and generic Prevacid, is an accurate estimation of the but-for world and is in fact more conservative than some of the models used by defendants, as I pointed out in my July 2013 Declaration.³⁴

34. Dr. Johnson also introduces variability in the switching rates of different channels of trade.³⁵ There is no reason to believe the variability Dr. Johnson is alluding to would result in uninjured Class members. For the reasons discussed above in Section III, this argument fails.

Quarters with negative brand-brand damages

35. Dr. Johnson is correct that I do not include quarters with negative damages when I calculate brand-brand damages. I was asked by counsel to zero out negative damages and I was informed that this was a legal matter. However, if I do not do so, the quantum of damages decreases by only 0.51%. In terms of unit volume, only about 2.4% of total Class sales would be subject to negative brand-brand damages. Furthermore, given that 97% of the Nexium units would have been converted to generic esomeprazole magnesium, and given the extended length of time of the damage period, it is extremely unlikely that any given Class member would have made only branded Nexium purchases in the but-for world.

Dr. Johnson incorrectly claims that I use uniform prices across direct purchasers³⁹

36. I do not use *uniform* prices. I use *average* prices to calculate damages. As discussed above, the use of such average prices is appropriate for the calculation of classwide damages.

Dr. Johnson mentions that I have not addressed retailers with assignments and have not excluded them from the class 40

37. Dr. Johnson is correct that I have not addressed these retailers (*i.e.*, retailers who may opt out of the Class). I have not yet been asked to do so by counsel, but can do so if

³³ See Takeda Annual Report, 2010, p. 27.

³⁴ Hartman July 2013 Declaration, ¶ 32.

³⁵ Johnson Report, ¶¶ 34-35.

³⁶ Johnson Report, ¶ 45.

³⁷ See Supplemental Declaration, Attachment C.3, where Column 12 is allowed to be negative.

³⁸ See Supplemental Declaration, Attachment C.3.

³⁹ Johnson Report, ¶ 16.

⁴⁰ Johnson Report, ¶¶ 40-42.

required. Subtracting the assigned units would be a simple mathematical exercise. My methodology allows me to exclude entities should I be asked to do so by counsel. I have done so in a variety of other matters. I have reviewed the data provided in the backup to the report of Dr. Leffler, and I conclude that the data exist to allow the exclusion of those potential opt outs from the calculation of my damages should it be deemed appropriate.⁴¹

Dr. Johnson notes that I did not account for generic bypass⁴²

- 38. Dr. Johnson is correct that I have not accounted for generic bypass in my calculation of damages. However, as I mentioned in my July 2013 Declaration, I did so at the request of counsel.⁴³ Further, I understand that Judge Young has previously ruled that the exclusion of generic bypass is not appropriate in these matters. However, should I be asked to address this issue, my methodology allows me to do so.
- 39. It is important to note that if potential opt-out purchasers are netted out of my calculation of aggregate damages, the bypass issue would be substantially reduced as a potential adjustment to damages. This is because the potential opt-out entities tend to be large retail chains the same type of customer that brings about the phenomenon of generic bypass. In other words, if the brand units claimed by assignment by these opt-out chains are excluded from my analysis, there will be much less bypass to consider.

Whether certain discounts to direct purchasers should be deducted

40. Dr. Johnson claims that I have not accounted for all discounts in my calculation of net prices paid for Nexium by the Class. In reviewing some of the materials provided by Dr. Johnson relating to AstraZeneca data documentation, it appears that Dr. Johnson was provided with AstraZeneca "data dictionaries" that I had not previously been provided. A review of this documentation in Dr. Johnson's work papers helps to clarify some of the issues I had previously raised with AstraZeneca. I have not accounted for a relatively small amount of discounts due to lack of information provided by the defendants prior to the calculation of my damages. Based on the new information Dr. Johnson was given by AstraZeneca (and which I now have access to as well), I will incorporate these additional discounts into my damages calculations with updated calculations in my rebuttal merits report. These adjustments do not alter my methodology nor do they change any of my conclusions relating to class-wide impact or

⁴¹ One way that this may be done is by deducting both units and dollar sales from my calculation of Class Nexium volume and prices.

⁴² Johnson Report, ¶¶ 43-44.

⁴³ Hartman July 2013 Declaration, ¶ 55.

⁴⁴ Johnson Report, footnote 19: "Dr. Hartman did not include the full amount of chargebacks received by direct purchasers in his quarterly average prices calculation. In addition to this error, Dr. Hartman also excludes valuable discounts to direct purchasers, including prompt payment discounts, wholesaler distribution service agreements credits, redistribution center agreements credits, and direct rebates to Express Scripts' mail order business." Note that I have included the full amount of chargebacks in my Supplemental Declaration of August 15, 2013 and in my Damages Declaration of August 23, 2013.

⁴⁵ See the July 15, 2013 letter from T. Sobol and the September 6, 2013 letter from D. Sorensen.

my ability to reliably calculate class-wide, aggregate damages; they simply change the quantum of damages.

41. Further, as Dr. Johnson points out, rebates paid to the Medco mail order service (a subsidiary of Express Scripts) should be subtracted from the Express Scripts purchases. Although these rebates may be a result of PBM functions, I have been advised by counsel that it would be appropriate to subtract them, which I will do when I submit updated damages with my rebuttal merits report. However, as noted above, the inclusion of these rebates do not alter my methodology or my conclusions relating to Class-wide impact; it simply changes the quantum of damages.

Class Locations

42. I have been asked by counsel to identify the states in which Class members are located. Attachment B is a list of all Class member locations as appearing in the AstraZeneca transaction sales data.

Raymond S. Hartman, Ph.D.

September 16, 2013

Attachment A

Attachment A: Materials Cited

Bates Documents

DRLMDL 179342-348

NEX-RBX 3505840-850

NEX-RBX 3514340-2

NEX-RBX 3514366

RAN-ESM 0134201-220

RAN-ESM 0194086-105

RAN-ESM 0462697-725

Teva-ESO-065243

Expert Reports, Depositions and Materials

Declaration of Raymond S. Hartman in Support of the Certification of the Class of Direct Purchasers of Nexium, July 26, 2013.

Deposition of John Johnson, September 13, 2013.

Dr. Leffler's backup materials.

Expert Report of Dr. John H. Johnson, IV on Direct Purchaser Class Certification, September 11, 2013.

Report of Raymond S. Hartman on Market Definition, August 23, 2013.

Report of Raymond S. Hartman, Calculation of Damages for the Class of Direct Purchasers of Nexium, August 23, 2013.

Supplemental Declaration of Raymond S. Hartman in Support of the Certification of the Class of Direct Purchasers of Nexium, August 15, 2013.

Other Documents

- Caves, R., M. Whinston, and M. Hurwitz, "Patent Expiration, Entry, and Competition in the U.S. Pharmaceutical Industry," *Brookings Papers: Microeconomics*, 1991, pp. 1-48.
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- Reiffen, D. and M. Ward, "Generic Drug Industry Dynamics," *Review of Economics and Statistics*, 87(1), 2005, pp. 37-49.
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- Schondelmeyer, S.W. and M.V. Wrobel, "Medicaid and Medicare Drug Pricing: Strategy to Determine Market Prices, Final Report," Abt Associates Inc., Prepared for Centers for Medicare and Medicaid Services, 2004.
- September 6, 2013 letter from D. Sorensen.
- Sorensen, A., "Equilibrium Price Dispersion in Retail Markets for Prescription Drugs," *Journal of Political Economy*, 108(4), pp. 833-850, August 2000.
- Suh, D., W. Manning, S. Schondelmeyer, and R. Hadsall, "Effect of Multiple-Source Entry on Price Competition After Patent Expiration in the Pharmaceutical Industry," *Health Services Research*, 35(2), 2000, pp. 529-547.

Attachment B

#	Parent Name	State
1	AMERISOURCEBERGEN CORP	AL
		AZ
		CA
		CO
		FL
		GA
		HI
		IL
		KY
		MA
		MI
		MN
		MO
		NC
		NJ
		NY
		OH
		PA
		PR
		TX
		UT
		VA
		WA
2	BURLINGTON DRUG CO INC	VT
3	CAPITAL WHOLESALE DRUG CO	ОН

#	Parent Name	State
4	CARDINAL HEALTH INC	AZ
		CA
		CO
		FL
		GA
		IL
		MA
		MO
		MS
		NC
		NJ
		NY
		OH PR
		TN
		TX
		UT
		WA
		WI
		WV
5	CESAR CASTILLO INC	PR
6	DAKOTA DRUG INC	MN
		ND
7	DISCOUNT DRUG MART	ОН
8	DMS PHARMACEUTICAL GROUP INC	IL
	DD 0 077DD 1 DD 1 170D 0 D 10	
9	DROGUERIA BETANCES INC	PR
1.0	DROCHERIA CERT DICICERO	DD.
10	DROGUERIA CTRL INC/CTRO	PR
11	DROGUERIA DE LA VILLA INC	DD
11	DRUGUERIA DE LA VILLA INC	PR

IN
NJ
NV
ОН
MI
ОН
CA
FL
IL
KY
NH
NJ
TX
MI
AR
GA
SC
SC

#	Parent Name	State
19	MCKESSON CORP	AK
		AL
		AZ
		CA
		CO
		CT
		FL
		GA
		HI
		IL
		MA
		MD
		MI
		MN
		MO
		MS
		NE
		NJ
		NY
		OH
		OK OR
		OR
		PA
		SD TN
		TX
		UT
		VA
		WA
		WI

20	MIAMI LUKEN INC	ОН
21	MORRIS & DICKSON CO LTD INC	LA
22	NORTH CAROLINA MUTUAL WHSLE	NC

#	Parent Name	State
23	PHARMACY BUYING ASSOCIATES	MO
24	PRESCRIPTION SUPPLY INC	ОН
25	R & S NORTHEAST	PA
26	REBEL DISTRIBUTORS CORP	CA
27	ROCHESTER DRUG COOPERATIVE INC	NY PA
28	VALUE DRUG CO INC	PA
29	WHOLESALERS GROUP INC	PR

Source: AstraZeneca direct sales and customer detail data.

Exhibit 4

9/4/2013 In Re: Nexium Antitrust Litigation Raymond S. Hartman

	Page 1
UNITED STATES DISTRICT	COURT
DISTRICT OF MASSACHU	JSETTS
	· X
IN RE: NEXIUM (ESOMEPRAZOLE) MDL No. 2409
MAGNESIUM) ANTITRUST LITIGATION)
) Case No.
This document relates to:) 1:12-MD-02409-WGY
All Direct Purchaser Class Actions)
	· X
VIDEOTAPED DEPOSITION OF RAYMOND	
Wednesday, September 4, 201	3, 9:34 a.m.
Mintz, Levin, Cohn, Ferris, Glovs	_
One Financial Cent	er
Boston, Massachusetts	02111
Reporter: Kimberly A. Smit	
DIGITAL EVIDENCE GR	
1726 M Street NW, Suite	
Washington, DC 20	0030
(202) 232-0646	

9/4/2013 In Re: Nexium Antitrust Litigation Raymond S. Hartman

1 there were no direct purchases of Nexium by American represented to you is their parent company, this 2 2 Sales or Meijer? list would number 1 to 29; is that right? 3 A. That would be the case. A. Given the taxonomy and the way they've been 4 presented here, they would be -- that's correct. Q. What understanding, if any, do you have 5 about the status of American Sales and Meijer as Q. Now, D.2 is a -- the "Direct customer list 6 6 plaintiffs in this case? under Scenario 2," correct? 7 A. Well, there's a -- there's a definition of A. Correct. 8 8 class. And it's my understanding that in order to Q. And so this shows that under Scenario 2, 9 be in the class, you have to meet the definition of 9 there were 26 Direct Purchasers of Nexium, correct? 10 10 the class. A. That's correct. 11 11 Q. And so in your understanding of the class, Q. And so in here if we were to move J.M. Smith 12 12 is that the class includes entities that purchase Drug and Valley Wholesale under their parent 13 13 directly from AstraZeneca -- purchase Nexium directly companies, this number would go from 1 to 24, 14 14 from AstraZeneca, correct? correct? 15 1.5 A. That's correct. A. Same -- Yes. With the same caveat as the 16 16 Q. And American Sales and Meijer did not answer to D.1, that's correct. 17 17 Q. And the same Pavlovian response regarding purchase directly from AstraZeneca, correct? 18 18 A. According to the data that my staff has I'm not asking you about legal. 19 19 compiled, that seems to be the case. Now, do I understand it correctly that 20 20 Q. So American Sales and Meijer are not the reason Scenario 1 has more class members than 21 21 members of those class, correct? Scenario 2 is because the but-for generic entry date 22 22 MR. SOBOL: Objection. is earlier under Scenario 1? Page 70 Page 72 THE WITNESS: According to my reading of A. That's correct. 2 2 the definition of the class, that -- that is correct. Q. And as I understand Scenario 1, the but-for 3 To the extent that there are legal issues involved, entry date that you were provided was April 14, 2008, 4 4 I -- that's something I can't render an opinion correct? 5 5 about. But they do not -- they do not fit into the A. That's correct. 6 6 definition of the class in paragraph 10 of my Q. Now, you made an adjustment for statute of 7 declaration if they do not appear as having 7 limitations, right? 8 purchased Nexium in -- in Attachment D.1. A. That's correct. 9 BY MR. LAZEROW: Q. Can you explain that. That adjustment. 10 10 A. Well, the -- I can explain it only in a Q. And I will be like Pavlov. Every time you 11 11 say "legal issues," I will tell you I am not asking general -- in a general way, in that in some -- some 12 12 you for sure about legal issues unless I specifically filings in this matter were sufficiently late that 13 13 say I want to know your legal opinion on something. the statute of limitation expired on all transactions 14 14 Is that fair? prior to August 27 of 2008. Even though injury and 15 A. It's fair. And like Pavlov's dog, I will --15 damages occurred to the group of Direct Purchasers 16 every time I feel like there could -- there may be prior to that date, they are not allowed to recover 17 17 some legal interpretation lurking in a question, I those damages. 18 18 want to distinguish what I can -- what I can say as Q. And under Scenario 2, the date that you 19 19 a matter of economics and fact and evidence and I were provided for the but-for generic entry date was 20 20 January 1, 2012; is that correct? can't say as a matter of law. 21 21 Q. So under Scenario 1, if we were to indent A. I think that's right, but I will just check 22 22 those two entities and put them under what I've to make sure so I don't mess up the record. Yes, Page 71 Page 73

Pages 70 to 73

Exhibit 5

	Page 1
1	UNITED STATES DISTRICT COURT
	FOR THE DISTRICT OF MASSACHUSETTS
2	
	MDL NO 2409
3	Master File No. 12-md-2409
4	In Re: NEXIUM (ESOMEPRAZOLE)
	ANTITRUST LITIGATION
5	
	This Document Related To:
6	All Actions
7	
8	September 13, 2013
9	CONFIDENTIAL - ATTORNEYS' EYES ONLY
10	
11	
12	Videotaped deposition DR. JOHN H.
13	JOHNSON, IV, taken at the Covington &
14	Burling, 1201 Pennsylvania Avenue, N.W.,
15	Washington, D.C. 20004, beginning at
16	a.m., before LINDA ROSSI RIOS, RPR, CCR and
17	Notary Public.
18	
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23	
24	
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Page 33

- DR. JOHNSON CONFIDENTIAL ATTORNEYS' EYES ONLY of my assignment here, sure.
 - Q. I'm not talking just about your assignment. I'm just drawing on everything that's in your brain about the pharmaceutical industry and markets and brand or generic drugs. Not just limited to your assignment, not just limited to your report, anything else that you're aware of, is it your testimony you're saying you can't address that question?
 - A. All right. As someone who studies customer behavior quite frequently, the part that I'm uncomfortable with, again, you used a phrase all or virtually all which I understand has some legal meaning. Without studying that question, I'm uncomfortable making the representation in the way you have.
 - Q. Have you ever heard of a pharmacy in the United States that only buys brand drugs?
 - A. No.
 - Q. Have you personally gone into a pharmacy in your life to buy drugs for

	Page 43
1	DR. JOHNSON - CONFIDENTIAL - ATTORNEYS' EYES ONLY
2	overcharge is above zero, that's an antitrust
3	injury, that's all I'm trying to ask?
4	MR. LAZEROW: Objection.
5	BY MR. SORENSEN:
6	Q. Is there some quantity aspect
7	that's a requirement as far as you
8	understand, it has to be above a million
9	dollars or above a thousand dollars?
10	A. Oh, in that context, no.
11	Again, to be clear, my understanding of
12	antitrust injury is binary. You're harmed or
13	you're not harmed.
14	Q. So above zero, you're harmed.
15	Correct?
16	MR. LAZEROW: Objection.
17	BY MR. SORENSEN:
18	Q. That's what binary means?
19	A. That's generally my
20	understanding.
21	Q. Okay. And you have this
22	assignment that's discussed in paragraph 6,
23	who gave you that assignment?
24	A. That was an assignment given to
25	me by counsel.

	Page 58
1	DR. JOHNSON - CONFIDENTIAL - ATTORNEYS' EYES ONLY
2	Now, Dr. Hartman calculates,
3	and I'll refer to his report you have seen.
4	A. Okay.
5	Q. Do you recall Dr. Hartman
6	presents calculations of but-for generic
7	prices?
8	A. I do.
9	Q. Those prices, DMS is the only
10	direct purchaser that you've identified whose
11	net average price for Nexium is below the
12	but-for generic price prices that
13	Dr. Hartman start again.
14	Is DMS the only direct
15	purchaser that you've identified whose net
16	average price on Nexium is below any of or
17	all of the but-for generic prices that
18	Dr. Hartman has calculated, or is there any
19	other direct purchaser for which you claim
20	that to be true of? Do you follow my
21	question?
22	A. I think I do. I'll try to be
23	clear.
24	Q. I'll make it concrete. So you
25	have a number of \$0.43 for DMS?

Page 59 DR. JOHNSON - CONFIDENTIAL - ATTORNEYS' EYES ONLY Α. Yes. Dr. Hartman presents but-for 0. generic prices, here we go, that go down to \$1.05, start at 2.57 and go down to \$1.05. Α. Okay. Q. And those are above \$0.43, I get that. Α. Yes. But is there any other direct Q. purchaser for which that is also true, that is their Nexium price is below all of the but-for generic prices? Α. So in the context of your question, which I'm not sure is the right comparison, but in the context of your question, if you're asking me is an overall

question, which I'm not sure is the right comparison, but in the context of your question, if you're asking me is an overall average as is shown in Exhibit 6 below the --mathematically below the 2.46 or 2.13 or whatever we just said, no. Of course that doesn't account for the way the analysis actually has to be done. And I surely don't want to imply that I in any way believe that but-for price is an appropriate calculation for the purposes of determining antitrust

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Page 60

DR. JOHNSON - CONFIDENTIAL - ATTORNEYS' EYES ONLY injury here.

- Q. Now, I understand you don't agree with the prices. I get that. I'm just trying to make sure I understand what you specifically have identified in your report versus what you haven't. And you mentioned DMS repeatedly and it's below price. I'm just wondering if there's any other drug purchaser that you say also has a Nexium price that is below any of the but-for generic prices that Dr. Hartman has calculated. That's all I'm trying to understand.
- A. So, again, mathematically, if you're saying taking Dr. Hartman and all the premises that I've accepted as true, no generic bypass, no indirect rebates count, his methodology can actually be relied upon for an average price, and that but-for average price is meaningful, no, the overall average across the entire period does not fall below his lowest price for anyone except DMS.
 - Q. Okay. Do you know what the

		Page 65
1	DR. JOHNSON - CO	NFIDENTIAL - ATTORNEYS' EYES ONLY
2	question.	
3		Take a look at paragraph 23 of
4	your report, p	age 22. Are you there, sir?
5	Α.	Yes.
6	Q.	You discussed bullets that go
7	onto page 23,	some of the members of the
8	proposed direc	t purchaser class.
9		Do you see that?
10	A .	Yes.
11	Q.	Now, for all of them except
12	DMS, which I'l	l get to, you list, among the
13	customers of d	irect purchasers, pharmacies.
14	Correct?	
15	Α.	Yes.
16	Q.	Are you aware of any proposed
17	member of the	direct purchaser class other
18	than DMS that	does not sell to pharmacies, at
19	least in part?	
20	A .	I'm not sure about Good
21	Samaritan Hosp	ital.
22	Q.	Okay. Any others?
23	A .	Not that I not as I sit here
24	today, no.	
25	Q.	Turn to page 27, please, of

	Page 73
1	DR. JOHNSON - CONFIDENTIAL - ATTORNEYS' EYES ONLY
2	asked you before about your understanding of
3	the meaning of antitrust injury. Do you
4	recall that?
5	A. Yes.
6	Q. That's what I'm asking about
7	right now.
8	A. Okay.
9	Q. Antitrust injury as applied to
10	a generic alleged alleged generic
11	suppression case. All right?
12	A. Okay.
13	Q. As applied to a case in which
14	the allegation is alleged wrongful
15	suppression of delay of generic competition,
16	is it your understanding that antitrust
17	injury by a direct purchaser can be shown as
18	long as it is shown or can be shown that the
19	direct purchaser of the brand would have
20	bought some amount of the generic at a price,
21	at some price below the price at which they
22	bought the brand?
23	MR. LAZEROW: Objection to form.
24	BY MR. SORENSEN:
25	O That's my question

Page 74

DR. JOHNSON - CONFIDENTIAL - ATTORNEYS' EYES ONLY

- A. So if you're asking me for any individual customer or direct purchaser, if one tries to determine whether they were injured, if it were the case that one did the individual inquiry and found the actual price paid was greater than the but-for price, and there was some type of switching, there would have been switching from the actual -- from the branded to the generic, and that includes accounting for all of the rebates and discounts and all of the other issues, then my understanding is yes.
- Q. As you understand the members of the proposed direct purchaser class, they are all resellers of pharmaceuticals.

 Correct? They're not end users, they're not patients, they are not -- the drugs don't stop there, they get resold?
- A. I think everyone but Good Samaritan Hospital.
- Q. And Good Samaritan Hospital, do you know whether it maintains a pharmacy?
 - A. I don't know.
 - Q. Are you familiar with the fact

Exhibit 6

Thomas M. Sobol
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55 CAMBRIDGE PARKWAY, SUITE 301
CAMBRIDGE, MA 02142
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July 15, 2013

BY EMAIL

Andrew D. Lazerow, Esq.

COVINGTON & BURLING LLP
1201 Pennsylvania Avenue, NW
Washington, DC 20004
Email: alazerow@cov.com

Re: *In re Nexium (Esomeprazole) Antitrust Litigation*Master File No. 12-md-02409-WGY

Dear Andrew:

We have reviewed the sales and transactional data that AstraZeneca has thus far produced in this case, and we have some follow-up questions about the data so that we may confirm our understanding of portions of the data and obtain sufficient information to understand other of the data. I have enclosed our questions with this letter.

In the interest of conserving everyone's time, and as the parties have been able to work cooperatively through informal follow-up on many matters, I am writing to request that you route the attached questions to the appropriate person in AstraZeneca's organization for the answers. Please give me a call and I will gladly clarify questions and work with you.

Thank you for the assistance.

Sincerely,

/s/Thomas M. Sobol

Thomas M. Sobol HAGENS BERMAN SOBOL SHAPIRO LLP

cc: David S. Nalven
Donna M. Evans
Bruce E. Gerstein
David Sorensen
Peter Kohn

AstraZeneca Data Questions

July 15, 2013

A. AZ-NX-MDL-00968558.txt (Customer Information)

- 1. Please confirm that the "company ID" field can be merged with the other data files mentioned in these questions. For each of the other data files, please identify the fields that can be used to merge with the "company ID" field in the customer information file.
- 2. Please provide a full and complete description of each of the following codes that appear in the "customer category code" field:
 - BP, CD, CE, CL, CO, CR, DC, DD, DO, FS, HC, HN, HO, HT, HV, IS, LT, MP, MT, NH, NP, OE, OG, OW, RI, RW, SC, SH, SO, SP, SU, SV, UG, VA, WH, WR and Z4.
- 3. Please confirm that this file contains customer information for all customers or entities that appear in all of the data files discussed below. If not, please explain where customer information can be obtained for those files.
- 4. What does the "status" field signify? What does it mean when it is equal to "A" or "I"?
- 5. What does the "address type code" field signify? What does it mean when it is equal to "CBK" or "TRADE"?

B. AZ-NX-MDL-00968559.txt (Direct Sales Data)

1. Please provide a full and complete description of each of the following codes that appear in the "SAP invoice type" field:

F2, G2, L2, RE, S1, S2, Z1, Z2, ZIMA, ZIMD, ZRE and ZREG.

- 2. For each of the invoice types mentioned above, please confirm whether the dollar amounts for such transactions should be included in the calculation of net sales.
- 3. For each of the invoice types mentioned above, please confirm whether the units for such transactions should be included in the calculation of total units sold.
- 4. If one of those invoice types refers to returns, please explain how units and dollar amounts are recorded in such transactions. Are the units in terms of bottles or pills? If a partial bottle is returned, how is the quantity reflected in the data?

- 5. What is the "sales master ID" field? How is it used?
- 6. What is the "doc number" field? How is it used?
- 7. What is the "sales indicator" field? What does it mean when it is equal to "A" or "D"?
- 8. What is the "invoice type code" field? What does it mean when it is equal to "BO", "IN" or "RC"?
- 9. What is the "SAP order type code" field? Please provide a full and complete description of each of the following codes found in this field:
 - ZBMP, ZCAA, ZCR, ZDAA, ZDR, ZIMC, ZIMD, ZORD, ZPRT and ZRTG.
- 10. What is the "SAP order reason code" field? Please provide a full and complete description of each of the following codes found in this field:
 - R01, R02, R03, R05, R07, R13, R14, R15, R16, R17, R23, R24, R25, R26, R28, R31, R39, Z02, Z03, Z05, Z06, Z07, Z08, Z15, Z16, Z28, Z29, Z36 and Z38.
- 11. Does the "company ID" field refer to the bill-to entity? If not, please explain.
- 12. Please provide a full and complete description of each of the following codes found in the "customer type code" field:
 - DUP, HOSP, MTF, PMC, U and WHSLR.
- 13. Some descriptions in the "product name" field include the phrase "(GOV'T Only)". What does that phrase mean? Where certain of these products are not sold to governmental entities, please indicate the reason for each?
- 14. Please confirm that the total dollar extended amount for a given transaction is derived by multiplying the "qty pkgs invoiced" field by the "pkg price" field. Are there any exceptions to this? If there are exceptions, please explain.
- 15. What does it mean when the "qty pkgs invoiced" field is a fractional amount, i.e., not a whole number?
- 16. What is the "adjustment amount" field? How is it used?
- 17. There are 16,738 records where the "qty pkgs invoiced" field is negative and the "pkg price" field is zero. What kind of transactions are these? Why is the "pkg price" field zero?

- 18. There are 344 records where the "qty pkgs invoiced" field is positive, the "pkg price" field is blank and the "adjustment amount" field is positive. What kind of transactions are these? Please explain what the "adjustment amount" means and represents in this context?
- 19. There are 45 records where the "qty pkgs invoiced" field is positive and the "pkg price" field is zero. What kind of transactions are these? Why is the "pkg price" field zero?
- 20. There are 122 records where the "qty pkgs invoiced" field is zero, the "pkg price" field is blank and the "adjustment amount" field is greater than or equal to zero. What kind of transactions are these? Please explain what the "adjustment amount" means in this context?
- On May 19, 2008 (according to the "invoice date"), there are 10 records with a negative "qty pkgs invoiced" and with a "SAP order reason code" of "Z29". These records are characterized by a large magnitude of negative units and a unit price of less than a penny. What do these records represent?

C. AZ-NX-MDL-00968560.txt (Chargeback Data)

- 1. Is there any way to link the chargeback data transactions in this file with the original invoices appearing in the direct sales data? If so, how?
- 2. What is the "sales master ID" field? How is it used?
- 3. What is the "contract ID" field? How is it used?
- 4. What type of customer does the "ship to cust ID" field refer to? The wholesaler? The wholesaler? Some other type of customer?
- 5. What is the "doc number" field? How is it used?
- 6. What is the "invoice date"? Is that the date of invoice from the wholesaler to its customer?
- 7. Please confirm that the "wholesaler company ID" field can be matched with the "company ID" field in the AZ-NX-MDL-00968558.txt data.
- 8. What is "pkg price"? Is that the wholesale price, or WAC?
- 9. Please confirm that the "chargeback amount" field indicates the final, total chargeback amount that was paid in each transaction. If not, please explain.
- 10. What is the "adjustment amount"?

- 11. Please explain how one can determine the contract price using the "qty pkgs invoiced," "pkg price" and "chargeback amount" fields.
- 12. Please confirm that the "company type code," "company name" and "customer category code" refer to the wholesaler's customer.
- 13. Please provide a full and complete description of each of the following codes that appear in the "company type code" field:
 - AF, AHP, ASC, ASSOC, BG, BIO MED, BOP, BOP REF, C INF, CDP, CF, CFP, CG, CH, CLIN, CONFRMPHAR, CP, DEPT, DUP, EBC, EMP, FACPRACT, FAO, FP, GMC, GOVT, GPO, GRPR, H, HDEPT, HMO, HMOCLIN, HMOHOSP, HMOP, HOC, HOSP, HOSPDEPT, HP, HS, HWARE, IHCS, IHHC, IHS, IND, INF, IP, IPA, LTC, MCO, MED, MEDSCHLDIV, MHS, MISC, MOP, MTF, NH, NHCG, NHP, NHPR, NM, NPA, NWHSLR, OC, OPHS, PAA, PBMLTC, PC, PH, PHO, PHS, PMC, PPO, PR INF, PTM, RESFAC, RF, SGRC, U, USS, VACO, VAD, VISIT, WARE and WHSLR.
- 14. Please confirm that the codes appearing in the "customer category code" are the same as the "customer category code" field in the AZ-NX-MDL-00968558.txt data.
- 15. Please provide a full and complete description of each of the following codes that appear in the "contract category code" field:
 - C, CCA, CCM, UA and UM.
- 16. What does the "status" field signify? What does it mean when it is equal to "A" or "I"?
- 17. What does the "dist channel code" field signify? What does it mean when it is equal to "B" or "P"?

D. AZ-NX-MDL-00968561.txt (Rebate Data)

- 1. What is the "rebate claim header ID" field? How is it used?
- 2. What is the "contract number" field? Can this be merged with any other field in the data provided? If so, how?
- 3. What is the "plan ID" field? Can this be merged with any other field in the data provided? If so, how?
- 4. What is the difference between the "company ID", "company ID 1" and "company ID 2" fields? Can each of these fields be merged with the "company

- ID" field in the AZ-NX-MDL-00968558.txt data? If not, is there another customer data file that contains customer information for these customers?
- 5. Please provide a full and complete description of each of the following codes that appear in the "customer category code" field:
 - BG, FG, IP, MA, MS, PB, SM and VA.
- 6. Please provide a full and complete description of each of the following codes that appear in the "customer category code 1" field:
 - BG, CR, EH, EM, FG, HC, HI, HM, IN, IP, LT, MA, MD, MP, MS, NH, NP, PB, RI, RM, SM, SO and VA.
- 7. What is the difference between the "customer category code" and "customer category code 1" fields?
- 8. What do "claim period start date" and "claim period end date" refer to?
- 9. What does "filled period start date" refer to?
- 10. What is "discrete quantity paid"? Is this in terms of number of capsules?
- 11. What is "dollar amount paid"?
- 12. What is "product basis price"?
- 13. What is "gross sales amount"? How is it calculated?

E. AZ-NX-MDL-00968562.txt (Admin Fee Data)

- 1. Please describe what kinds of fees are included in this data file.
- 2. What sorts of customers receive these payments, and why?
- 3. How can the customer category code of the customers be determined in these data?
- 4. What is the "fee ID" and how is it used?
- 5. What is the "contract ID"? How is it used? Can it be merged with any other data file that has been produced? If so, how? If not, are there data elsewhere that provide further information regarding the "contract ID"?
- 6. What is the "contract org compass ID" field? Can it be merged with any other data file that has been produced? If so, how? If not, are there data elsewhere that provide further information regarding the "contract org compass ID"?

- 7. Note that the "contract org compass ID" field does not appear to match with the company IDs appearing in the AZ-NX-MDL-00968558.txt file. Why? Does this suggest missing customer information data?
- 8. What is the "member compass ID" field? Can it be merged with any other data file that has been produced? If so, how? If not, are there data elsewhere that provide further information regarding the "member compass ID"?
- 9. What is the "basis amount" field? What does it represent?
- 10. How is the "fee paid amount" calculated?
- 11. What is the "sales master ID" field? How is it used?
- 12. What do the "fee period start date" and "fee period end date" refer to?

F. AZ-NX-MDL-00968563.txt (Contract Information)

- 1. What do the data in this file refer to? What kinds of contracts does this file refer to?
- 2. Can the information in this file be linked or merged with any other file in this production? If so, how?
- 3. What is the "contract number" field? Can it be used to merge with any other data file in this production? If so, how?
- 4. What is the "basis allocated amount" field? Does it reflect a payment that is made? How is it calculated?
- 5. If the "basis allocated amount" field indicates a payment that is made, is this payment also reflected in any other data file in this production, such as AZ-NX-MDL-00968561.txt or AZ-NX-MDL-00968562.txt?
- 6. The "contract type code" indicates "REBATE." What kind of rebates are these? Are these rebates also reflected in the AZ-NX-MDL-00968561.txt file?

Exhibit 7

From: Monday, Kathy

Sent: Wednesday, December 5, 2007 06:37:36 PM

To: Barker, Richard S
CC: Lorenc, Eleanor
Subject: RE: Genesis

Great this helps

I didn't get much of a debrief from Ken - only that costs were discussed (why I asked) and that's why Ken asked who was authorizing. David smith still voiced concerns on having SET be aware of this but not out issue.

I will let you know more when I know

WRT authorizations - yes - lets use a similar approach as we did with mocking bird for investments - even if it wont be paid out the same way.

thanks

----Original Message---From: Barker, Richard S

Sent: Wednesday, December 05, 2007 2:01 PM

To: Monday, Kathy
Cc: Lorenc, Eleanor
Subject: RE: Genesis

Kathy,

The cost estimates to date are:

Capsules - \$400k for 110MM capsules - capsules ordered (cost estimate provided by Global Purchasing)

Formulation - \$5MM for Sweden to formulate 110MM capsules - timing for Sweden to start currently is Redacted - Priv (cost estimate based on current COGs and provided by Sweden Ops)

Packing - \$10.6MM for Merck to package 110MM capsules based on 2007 standard costs and current Branded NDC volume splits (\$10.6MM includes the transferred cost of capsules which Merck will purchase directly from Sweden as well as the costs for all packaging components (again based on 2007 costs) per current business practices). We approached the estimate in this manner because we weren't

CONFIDENTIAL NEX-RBX 3514340

able to discuss costs with Merck and we had to give the US Business an order of magnitude idea of the investment required to prepare for an AG launch. The actual costs for packing will most likely change as we nail down the final volume forecast and actual NDC splits with them. For our planning purposes, we have been using Redact for Merck to start packing, however, Liz seems to think it's closer to Redact. Actual timing for Merck to order components and start packaging should be nailed down next week at our F2F.

As far as authorizations, to date we have only received authorization to purchase capsules.

We agreed with John McCarthy and Marion McCourt, as part of the project planning process, to identify specific milestones where investment is required so that the US Business could review the current landscape and provide approval (or denial) to proceed. As you know we've done that for capsules. The next big milestone is Sweden Ops formulation. John and Marion are both aware of the timing which was re-emphasized to them yesterday at our Core Team Meeting. So what I'm anticipating is that Marion will have a similar dialog with US Business leaders to gain approval to proceed. I'll follow up with John/Marion today just to be sure. For now, Sweden is under instruction not to proceed with formulation until they are given specific approval to do so.

Brian D. did share with me a letter to Ken outlining costs/risk he pulled together for Mockingbird for authorization to proceed. If I need to do similar for this project let me know.

I haven't spoken to Karin - did something come out of OMT today?

Rick

-----Original Message-----From: Monday, Kathy

Sent: Wednesday, December 05, 2007 11:56 AM

To: Barker, Richard S
Cc: Lorenc, Eleanor
Subject: Genesis

Rick

Can you provide me with ALL costs that are associate with purchase of capsules, formulation, packing etc

Have any risk authorizations been issued?

Kathy Monday
VP, Customer & Technical Operations
302-885-1133-Office/610-203-3106-cell/302-886-1236-fax
Kathy.Monday@astrazeneca.com

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CONFIDENTIAL NEX-RBX 3514342

Exhibit 8

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IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF MARYLAND

IN RE: TITANIUM DIOXIDE ANTITRUST

LITIGATION

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CIVIL ACTION No.: RDB-10-0318

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THIS DOCUMENT RELATES TO:

ALL ACTIONS

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MEMORANDUM OPINION

This case concerns an alleged price-fixing conspiracy in the market for titanium dioxide. Plaintiffs Haley Paint Company and Isaac Industries, Inc., and Intervening Plaintiff East Coast Colorants, LLC d/b/a Breen Color Concentrates (collectively, "Plaintiffs") claim that Defendants E.I. du Pont de Nemours & Co. ("DuPont"), Huntsman International LLC ("Huntsman"), Kronos Worldwide Inc. ("Kronos"), and Millennium Inorganic Chemicals, Inc. ("Millennium") (collectively, "Defendants") engaged in an unlawful conspiracy in violation of Section 1 of the Sherman Act, 15 U.S.C. § 1, to fix, raise, or maintain the price of titanium dioxide in the United States.¹ Plaintiffs allege that as a consequence of the

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¹ In addition to the named Defendants, Plaintiffs have named several co-conspirators, including, *inter alia*, Tronox Inc. ("Tronox") and The National Titanium Dioxide Company Ltd. (d/b/a "Cristal"). Tronox filed for Chapter 11 bankruptcy protection in January 2009, and is therefore precluded from being named as a defendant. *See* 11 U.S.C. § 362(a). Plaintiffs originally sought to include Cristal as a named defendant in this case, but this Court dismissed Cristal for want of jurisdiction on March 31, 2011. *See* Mem. Op. and Order, ECF Nos. 101 & 102. Subsequently, Plaintiffs have sought formal reconsideration of that decision on two occasions. On April 3, 2012, this Court denied the Plaintiffs first motion for reconsideration by Memorandum Order (ECF No. 268). At the August 13, 2012 Class Certification hearing, this Court again denied the Plaintiffs' request to add Cristal as a defendant. *See* Order, ECF No. 332.

unlawful conspiracy, Defendants were successful in charging artificially inflated prices for titanium dioxide products—thereby injuring all Plaintiffs.

Presently pending is Plaintiffs' Motion for Class Certification and for Appointment of Class Counsel (ECF No. 246). This Court has reviewed the record, as well as the pleadings and exhibits, and conducted a full-day class certification hearing on August 13, 2012. For the reasons that follow, Plaintiffs' Motion for Class Certification will be GRANTED.

BACKGROUND

I. THE PLAINTIFFS' FACTUAL ALLEGATIONS

The allegations contained in the Plaintiffs' Consolidated Amended Complaint (ECF No. 51) were fully set forth in this Court's previous Memorandum Opinion entered on March 29, 2011. *See Haley Paint Co. v. E.I. du Pont de Nemours & Co.*, 804 F. Supp. 2d 419 (D. Md. 2011) (denying Defendants' motion to dismiss complaint). That background is repeated here, in part, so as to provide context for the pending motion for class certification.

Defendants are the leading suppliers of titanium dioxide ("TiO₂") in the world, and control approximately 70 percent of the global production capacity. Consol. Am. Compl. ("CAC") ¶ 1. TiO₂, a so-called "quality of life" product, is a dry chemical powder that is the "world's most widely used pigment for providing whiteness, brightness, and opacity . . . to many products, particularly paints and other coatings." Id. ¶ 33. TiO₂ has few competitive substitutes, and demand for it tends to be inelastic. Id. ¶ 35. Plaintiffs allege that, as a result of a declining market for TiO₂, Defendants conspired to fix, raise, maintain, and stabilize the price of the product. Id. ¶ 2, 69. This conspiracy is alleged to have occurred between

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February 1, 2003, through the present (hereinafter referred to as the "Class Period").² *Id.* ¶ 21. During the Class Period, TiO₂ prices increased, and Defendants earned billions of dollars in revenue. *Id.* ¶ 3, 1.

II. The Titanium Dioxide Market

As previously mentioned, Defendants are the market leaders in the production of TiO₂. The market is global in scope, with the majority of trade conducted internationally. *Id.* ¶ 49. The market for the chemical has high barriers to entry—it is estimated that a new plant would require \$450-500 million and three to five years to build. *Id.* ¶ 43. As a result, the industry is highly centralized. *Id.* ¶ 42-48. Beginning in the early 1990s, prices for TiO₂ began to decline for a variety of reasons, such as global overcapacity and customer consolidation. *Id.* ¶ 68. Prices increased in the late 1990s, but fell significantly in 2001. *Id.* Plaintiffs allege, that as a result of declining prices and declining demand, "Defendants were motivated to reach, and did reach, an agreement or understanding in or about early 2002 to increase prices and improve margins in the industry." *Id.* ¶ 69.

A. Alleged Conspiracy to Fix Prices of Titanium Dioxide

It is alleged that on January 24, 2002, a TiO₂ industry meeting took place in Finland. *Id.* ¶ 54. Shortly thereafter, and in spite of flat or declining demand for TiO₂, Defendants and their co-conspirators announced price increases to be effective March 1, 2002. Further price increases were announced and implemented in the summer of 2002. *Id.* The following

² Plaintiffs originally defined the Class Period as beginning in March of 2002. Plaintiffs have since modified the Class Period to begin on February 1, 2003 because "[t]he evidence shows that while the Cartel behavior began as early as 2002, it does not appear to have become fully effective until February 2003. [citation omitted] As a result, and to be conservative, Plaintiffs propose to delay the start of the Class period until February 1, 2003, despite the evidence of illegal antitrust activity before that date." Pls.' Class Mem. at 3 n.2, ECF No. 247.

year, a TiO₂ conference took place in Miami, Florida. That conference was attended by Defendants, and the former Vice President of Defendant Millennium specifically told attendees to expect further price increases. *Id.* ¶ 55. Numerous other meetings and conferences were held over the next several years, and those meetings neatly corresponded to TiO₂ price increases during the Class Period. *Id.* ¶¶ 52, 56-61. Plaintiffs allege that it was at these conferences where Defendants agreed and conspired to fix the price and supply and capacity of TiO₂. *Id.* ¶ 62.

In addition to conferences and trade meetings, Plaintiffs also allege that the conspiracy was furthered through industry publications and through conversations with industry consultants, customers, and others. Id . ¶ 51. "After having reached an unlawful agreement or understanding . . . , Defendants used consultants, customers, and others as conduits to signal or confirm intended pricing and other actions to each other." Id . These conversations and signals allowed Defendants to monitor the conspiracy and cut down on potential "cheating," whereby one participant could undercut the others by reducing their prices. Id . Plaintiffs also allege that Defendants privately discussed industry conditions and TiO_2 pricing at dinner meetings before and after the various trade association and industry meetings. Id . ¶ 53. In short, Plaintiffs allege that Defendants had ample ability to conspire to fix the price and capacity of TiO_2 .

B. Titanium Dioxide Pricing

According to the Plaintiffs, in the face of declining demand, reduced costs, and increased production capacity, see ¶¶ 54, 69, 71, 74, 81-82, 84, 102, the price of TiO₂ actually increased substantially during the Class Period. *Id.* ¶ 103. Plaintiffs allege that Defendant

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DuPont, the titanium dioxide market leader, typically would announce a price increase which would be quickly followed by all other Defendants. *Id.* ¶¶ 67, 72-75, 77-78, 80, 82-101. According to the Plaintiffs, Defendants announced and implemented multiple and nearly simultaneous TiO₂ price increases in lock-step fashion. Of crucial importance to Plaintiffs case is their contention that these price increases were implemented in the midst of market conditions, such as declining demand, decreasing manufacturing costs, and excess production capacity, that Plaintiffs allege are completely incompatible with across the board price increases among the market leaders of a product.

Although the price increases were spaced out over five years, they increased in frequency in 2008. Plaintiffs allege that "over the course of approximately 14 weeks, from late May 2008 to early September 2008, Defendants and their co-conspirators announced three separate Titanium Dioxide price increases and at least two energy surcharges," and that these price increases were made amidst declining demand for TiO₂. *Id.* ¶ 99.

In light of the market conditions for TiO₂, Plaintiffs allege that the price increases implemented by Defendants cannot be explained as anything other than an illegal agreement to fix prices and supply of the chemical. In support of this contention, Plaintiffs draw an analogy to the period in the 1990s—where there is no price fixing conspiracy alleged—when industry overcapacity lead to lower prices and slim profit margins. *Id.* ¶ 102. Plaintiffs allege that the price increases were profitable for Defendants. The average price per ton of TiO₂ increased nearly a third between 2002 and 2006, and Defendants increased their operating incomes and margins. *Id.* ¶ 103.

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As a result of this alleged conspiracy, Plaintiffs contend that price competition in the sale of TiO₂ by Defendants (who control approximately 70 percent of global production capacity) has been restrained, suppressed, and eliminated throughout the United States. *Id.* ¶ 104. Plaintiffs further allege that prices for TiO₂ have been raised, fixed, maintained, and stabilized at artificial levels, and as a result, direct purchasers of TiO₂ have been "deprived of the benefit of free and open competition in the purchase" of the chemical. *Id.*

III. CLASS CERTIFICATION ARGUMENTS—FRAMING THE ISSUES

In Plaintiffs' Motion for Class Certification, they seek certification of the following class:

All persons and entities who purchased titanium dioxide in the United States directly from one or more Defendants or Tronox, or from any predecessors, parents, subsidiaries, or affiliates thereof, between February 1, 2003 and the present ("Class Period"). Excluded from the Class are Defendants, their coconspirators, parent companies, predecessors, subsidiaries and affiliates, and all governmental entities.

Pls. Class Mot. at 1, ECF No. 246. According to the Plaintiffs, "[t]his case is directly analogous to the legion of antitrust price fixing cases that federal courts have routinely certified as class actions." Pls.' Class Mem. at 2. In that regard, Plaintiffs maintain that all the Rule 23 requirements are satisfied, and in particular, the predominance requirement of Rule 23(b)(3) has been met insofar as "[t]he trial will focus almost entirely on proving that the Cartel Members formed a cartel and conspired to artificially inflate prices for titanium dioxide, that they were successful in raising prices to supra-competitive levels, and that, as a result of this conspiracy, Class members sustained injury and damages when they paid artificially-inflated prices on their purchases of titanium dioxide." *Id.* at 2-3.

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Defendants argue that this case is not amenable to class treatment and contest certification of this class on the grounds that: (1) the named Plaintiffs have not satisfied the Rule 23(a) requirements of typicality and adequacy of representation; and (2) the Rule 23(b)(3) requirements of predominance cannot be met insofar as the Plaintiffs have set forth a flawed methodology for proving individual antitrust impact and damages on a class-wide basis. More specifically, Defendants argue that the named Plaintiffs' claims are not typical of the class because they are small purchasers of TiO₂, are located in narrow geographies, and have individual interests antagonistic to the class as a whole. In this regard, Defendants argue that the named Plaintiffs are not adequate class representatives. Regarding the predominance prong of Rule 23(b), Defendants argue that even if the Plaintiffs could prove the existence of a price-fixing conspiracy, proof of individual injury and damages cannot be computed in a class-wide manner, and therefore must be resolved on an individual basis.

On the typicality and adequacy of representation prongs of Rule 23(a), Plaintiffs maintain that each named Plaintiff suffered the same injury—*i.e.*, they paid artificially inflated prices for TiO₂—and therefore their interests are aligned with the class as a whole. On the predominance prong of Rule 23(b), Plaintiffs contend that they have sufficient class-wide proof to establish individual impact and damages. Plaintiffs plan to present evidence that Defendants colluded to fix the price of TiO₂ in the United States in the form of: (1) proof that Defendants implemented lock-step price increase announcements; (2) proof that Defendants regularly attended industry meetings that facilitated the workings of the conspiracy; and (3) expert analysis regarding the structure of the TiO₂ market and how that structure facilitates collusive agreements. To prove common impact, Plaintiffs plan to

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present expert testimony showing that, as a result of the cartel, TiO₂ prices were supracompetitive across the class, and as a result affected each individual member of the class. To prove damages, Plaintiffs rely on the same expert analysis and methodology to show that the "aggregate" overcharge was felt uniformly across the class.

Accordingly, while each element of the Rule 23 class certification analysis will be addressed, this Court will focus on the issues most closely contested by the Defendants—typicality and adequacy of representation, and predominance of common issues.

THE LEGAL STANDARD FOR CLASS CERTIFICATION UNDER RULE 23 OF THE FEDERAL RULES OF CIVIL PROCEDURE

To obtain class certification, the Plaintiffs must meet all four requirements of Federal Rule of Civil Procedure 23(a), and at least one of the requirements of Rule 23(b). *Gunnells v. Healthplan Servs., Inc.*, 348 F.3d 417, 423 (4th Cir. 2003). Here, Plaintiffs seek certification of the proposed class under Rule 23(b)(3), which requires that common questions of law predominate. "Class certification requires a finding that each of the requirements of Rule 23 has been met" by a preponderance of the evidence. *In re Hydrogen Peroxide Antitrust Litig.*, 552 F.3d 305, 320 (3d Cir. 2008).

"The class action is an exception to the usual rule that litigation is conducted by and on behalf of the individual named parties only." *Wal-Mart Stores, Inc. v. Dukes*, __ U.S. __, 131 S. Ct. 2541, 2550 (2011) (internal quotation marks and citation omitted). As recently noted by the Supreme Court in the *Wal-Mart* opinion, "Rule 23 does not set forth a mere pleading standard. A party seeking class certification must affirmatively demonstrate his compliance with the Rule—that is, he must be prepared to prove that there are *in fact* sufficiently numerous parties, common issues of law or fact, etc." *Id.* at 2551. In ruling on a

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class certification motion, a court must take a close look at the facts relevant to the certification question, even if those facts "tend to overlap with the merits of the case." *Thorn v. Jefferson-Pilot Life Ins. Co.*, 445 F.3d 311, 319 (4th Cir. 2006); *accord Gariety v. Grant Thornton, LLP*, 368 F.3d 356, 366 (4th Cir. 2004) ("[W]hile an evaluation of the merits is not part of a Rule 23 analysis, the factors spelled out in Rule 23 must be addressed through findings, even if they overlap with issues on the merits.").

The Supreme Court recently noted that "sometimes it may be necessary for the court to probe behind the pleadings before coming to rest on the certification question,' and that certification is proper only if 'the trial court is satisfied, after a *rigorous analysis*, that the prerequisites of Rule 23(a) have been satisfied." *Wal-Mart* 131 S. Ct. at 2551 (quoting *Gen. Tel. Co. of the Sw. v. Falcon*, 457 U.S. 147, 160 (1982)) (emphasis added); *see also Coopers & Lybrand v. Livesay*, 437 U.S. 463, 469 (1978) ("[T]he class determination generally involves considerations that are 'enmeshed in the factual and legal issues comprising the plaintiff's cause of action.") (quoting *Mercantile Nat. Bank v. Langdean*, 371 U.S. 555, 558 (1963)).

The "rigorous analysis" that must be undertaken in the class certification context extends to disputes between experts: "Resolving expert disputes in order to determine whether a class certification requirement has been met is always a task for the court—no matter whether a dispute might appear to implicate the 'credibility' of one or more experts" In re Hydrogen Peroxide, 552 F.3d at 323-24. Of course, there are limits to a court's resolution of expert disputes, and "a court should only engage itself in statistical dueling of experts if such dueling presents a valid basis for granting or denying class certification." In re Rail Freight Fuel Surcharge Antitrust Litig., _ F. Supp. 2d _, 2012 WL 2870207, at *17

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(D.D.C. June 21, 2012) (internal quotations, citations, and alterations omitted). As noted by the Third Circuit, "[t]hat weighing expert opinions is proper does not make it necessary in every case or unlimited in scope[,]" and "[r]igorous analysis need not be hampered by a concern for avoiding credibility issues; as . . . findings with respect to class certification do not bind the ultimate fact-finder on the merits. A court's determination that an expert's opinion is persuasive or unpersuasive on a Rule 23 requirement does not preclude a different view at the merits stage of the case." *In re Hydrogen Peroxide*, 552 F.3d at 324.

ANALYSIS

I. RULE 23(a) FINDINGS & CONCLUSIONS

As previously noted, Plaintiffs must first establish—by a preponderance of the evidence—the four requirements of Rule 23(a): numerosity, commonality, typicality, and adequacy of representation. Each will be addressed in turn.

A. Numerosity

Rule 23(a)(1) provides that one of the requirements to bring a class action is that the class be "so numerous that joinder of all members is impracticable." The Fourth Circuit has held that "[n]o specified number is needed to maintain a class action." *Brady v. Thurston Motor Lines*, 726 F.2d 136, 145 (4th Cir. 1984) (quoting *Cypres v. Newport News Gen. & Nonsectarian Hosp. Ass'n*, 375 F.2d 648, 653 (4th Cir. 1967)). This Court has previously noted that, generally speaking, "courts find classes of at least 40 members sufficiently large to satisfy the impracticability requirement." *Peoples v. Wendover Funding, Inc.*, 179 F. R.D. 492, 497 (D. Md. 1998).

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Here, Plaintiffs assert that at least 700, and as many as several thousand TiO₂ purchasers were affected by the Defendants' alleged conspiracy. *See* Pls. Class Mem. at 18. Defendants do not contest this assertion, and this Court finds that the numerosity requirement is met in this case.

B. Commonality

Rule 23(a)(2) requires a question of law or fact common to the class. "A common question is one that can be resolved for each class member in a single hearing," and does not "turn[] on a consideration of the individual circumstances of each class member." *Thorn v. Jefferson-Pilot Life Ins. Co.*, 445 F.3d 311, 319 (4th Cir. 2006) (internal quotation marks and citation omitted). The Fourth Circuit has held that, "in a class action brought under Rule 23(b)(3), the 'commonality' requirement of Rule 23(a)(2) is 'subsumed under, or superseded by, the more stringent Rule 23(b)(3) requirement that questions common to the class predominate over' other questions." *Lienbart v. Dryvit Systems, Inc.*, 255 F.3d 138, 147 n.4 (4th Cir. 2001) (quoting *Amchem Prods., Inc. v. Windsor*, 521 U.S. 591, 609 (1997)). Therefore, in the Fourth Circuit "[t]he common questions must be dispositive and overshadow other issues." *Lienbart*, 255 F.3d at 146. "Thus, the commonality requirement is relatively toothless in comparison with the related requirements of typicality and predominance." *In re Puerto Rican Cabotage Antitrust Litig.*, 269 F.R.D. 125, 131 (D.P.R. 2010).

As the Supreme Court recently noted, "[c]ommonality requires the plaintiff to demonstrate that the class members have suffered the same injury." *Wal-Mart*, 131 S. Ct. at 2551 (internal quotations and citation omitted). Here, Plaintiffs allege a multi-year price-fixing conspiracy that led to all class members being subjected to artificially inflated prices

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for TiO₂. Generally speaking, in the antitrust context, "courts have held that the existence of an alleged conspiracy or monopoly is a common issue that will satisfy" the commonality requirement." 1 HERBERT B. NEWBERG & ALBA CONTE, NEWBERG ON CLASS ACTIONS § 3.10 (4th ed. 2002); see also 7A CHARLES ALAN WRIGHT, ARTHUR R. MILLER & MARY KAY KANE, FEDERAL PRACTICE AND PROCEDURE § 1763 (3d ed. 2005) ("the claimed existence of a conspiracy to fix prices . . . in violation of the antitrust laws has been found to present common questions in actions brought by plaintiffs who asserted that they had been harmed by those activities") (hereinafter "FEDERAL PRACTICE AND PROCEDURE"); In re Florida Cement and Concrete Antitrust Litig., 2012 WL 27668, at *3 (S.D. Fla. Jan. 3, 2012) (collecting cases).

Plaintiffs have identified several questions that they assert are common to the class. Most notably, Plaintiffs maintain that the existence of the conspiracy is *the* central issue in this litigation. Defendants acknowledge this point in noting that "the commonality element of Rule 23(a) is satisfied because there is at least one common question—namely, whether the alleged conspiracy in fact existed." Defs.' Class Opp'n at 15, ECF no. 293. Accordingly, this Court finds by a preponderance of the evidence that the existence of the alleged conspiracy, standing alone, is sufficient to establish commonality. In other words, the Plaintiffs' claims "depend upon a common contention," and that common contention is "of a nature that is capable of classwide resolution—which means that its truth or falsity will resolve an issue that is central to the validity of each one of the claims in one stroke." *Wal-Mart*, 131 S. Ct. at 2551.

C. Typicality & Adequacy of Representation³

Rule 23(a)(3) requires that "the claims or defenses of the representative parties are typical of the claims or defenses of the class." Fed. R. Civ. P. 23(a)(3). Courts have recognized that the commonality and typicality requirements of Rule 23(a) tend to merge. "Both serve as guideposts for determining whether . . . the named plaintiff's claim and the class claims are so interrelated that the interests of the class members will be fairly and adequately protected" Gen. Tel. Co. of the SW. v. Falcon, 457 U.S. 147, 157 n.13 (1982). As this Court has previously noted, the typicality requirement determines "whether a sufficient relationship exists between the injury to the named plaintiff and the conduct affecting the class, so that the court may properly attribute a collective nature to the challenged conduct." Bullock v. Bd. of Educ. of Montgomery County, 210 F.R.D. 556, 560 (D. Md. 2002) (citations omitted). The class representative "must be part of the class and possess the same interest and suffer the same injury as the class members." Broussard v. Meineke Discount Muffler Shops, Inc., 155 F.3d 331, 338 (4th Cir. 1998). Essentially, the typicality requirement ensures that "only those plaintiffs who can advance the same factual and legal arguments may be grouped together as a class." *Id.* at 340. "The essence of the typicality requirement is captured by the notion that 'as goes the claim of the named plaintiff, so goes the claims of the class." Deiter v. Microsoft Corp., 436 F.3d 461, 466 (4th Cir. 2006) (citing Broussard, 155 F.3d at 340).

In their Class Opposition Memorandum, Defendants make the same arguments for both the typicality and adequacy of representation prongs of Rule 23. *See* Defs.' Class Opp'n at 42-46. Because the typicality inquiry "tend[s] to merge with the adequacy of representation requirement," *Falcon*, 457 U.S. at 158 n.13, the Court will address these elements together.

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The final prerequisite under Rule 23(a) is that the persons representing the proposed class must be able "fairly and adequately to protect the interests" of all members of the class. The adequacy inquiry under Rule 23(a)(4) "serves to uncover conflicts of interest between named parties and the class they seek to represent." *Amchem*, 521 U.S. at 625 (citing *Falcon*, 457 U.S. at 157-58 n.13.). As noted by the Fourth Circuit, for a conflict to defeat class certification, the conflict "must be more than merely speculative or hypothetical;" it "must be fundamental" and "go to the heart of the litigation." *Gunnells v. Healthplan Servs., Inc.*, 348 F.3d 417, 430-31 (4th Cir. 2003) (internal quotations and citations omitted).

The typicality requirement "has been liberally construed by courts . . . [and] in the antitrust context, typicality will be established by plaintiffs and all class members alleging the same antitrust violations by defendants." *In re Rail Freight*, 2012 WL 2870207, at *26 (quoting *Meijer*, *Inc. v. Warner Chilcott Holdings Co. III*, *Ltd.*, 246 F.R.D. 293, 301 (D.D.C. 2007)). Notwithstanding courts' liberal reading of the typicality requirement in price-fixing cases, Defendants maintain that the named Plaintiffs' claims are not typical of the putative class for several reasons. For example, Defendants argue that the named Plaintiffs' claims are not typical of the proposed class because they "(1) represent a very small portion of the total volume of titanium dioxide sold, (2) purchased a small number of the total titanium products offered by defendants, and (3) are located in narrow geographies." Defs.' Class Opp'n at 42.

This Court finds these arguments unavailing. As noted, to establish the typicality prong of Rule 23(a), "a class representative must be part of the class and possess the same interest and suffer the same injury as the class members." *Deiter*, 436 F.3d at 466. While

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some factual differences between the named Plaintiffs and the putative class may exist, they all seek the same relief: overcharge damages as a result of a price-fixing conspiracy in violation of Section 1 of the Sherman Act. See In re Polyester Staple Antitrust Litig., 2007 WL 2111380, at *10 (W.D.N.C. July 19, 2007) ("In determining whether the claims of the class representatives are typical of the class, the Court looks to the nature of the claims asserted (i.e, the legal theory) rather than any specific factual differences amongst class members.") (citations omitted, emphasis added). Because Plaintiffs' claims arose from the same alleged conduct, their claims are typical insofar as they will seek relief under the same legal theory and will "tend to advance the interests of the absent class members." Deiter, 436 F.3d at 466.

Defendants also argue that each named Plaintiff will not adequately represent the interests of the class because of specific disqualifying problems. For example, Defendants argue that because Plaintiff Isaac is a chemical wholesaler, it is unlike the majority of the putative class members that are in the business of manufacturing products using TiO₂. Moreover, Defendants point out that Isaac purchased only a small volume of TiO₂ in 2004, and later sold that product at a profit. Defendants argue that it is therefore unlikely that Isaac suffered any actual injury as a result of the alleged conspiracy. A See Defs.' Class Opp'n at 43-44. With respect to Intervener Plaintiff Breen, Defendants highlight deposition testimony by Breen's class representative that indicates Breen was not aware of any price-fixing until 2011—years after the filing of the lawsuit. Finally, Defendants argue that Plaintiff Haley is also an inadequate class representative. Defendants argue that because

⁴ To the extent that this argument overlaps with the predominance inquiry relating to impact, that argument will be addressed *infra*.

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Haley ceased purchasing TiO₂ in 2008, it therefore has no incentive to "prove a conspiracy beyond mid-2008 when it sold its manufacturing business and no longer had a need to purchase titanium dioxide." Defs.' Class Opp'n at 45. When Haley did purchase TiO₂, it purchased the product through a buying group that negotiated low prices, thereby lessening any alleged impact of the price-fixing conspiracy.⁵ Moreover, Defendants argue that they have unique defenses pertaining to Haley, particularly with respect to the statute of limitations.

Notwithstanding these minor issues identified by the Defendants, this Court can discern no "fundamental" conflict that goes to the "heart of the litigation." *Gunnells*, 348 F.3d at 430-31. The thrust of the litigation will concern the *Defendants* conduct and the existence of the alleged conspiracy. Accordingly, the named Plaintiffs and the putative class will "share common objectives and the same factual and legal positions," and therefore "have the same interest in establishing the liability of [Defendants]." *Id.* at 431. As such, this Court finds, by a preponderance of the evidence, that Plaintiffs have satisfied the typicality and adequacy of representation prongs of Rule 23(a).6

⁵ See supra note 4.

⁶ Pursuant to the 2003 amendments to Rule 23, the Court's inquiry into the qualifications and experience of Plaintiffs' counsel are no longer investigated under Rule 23(a), but instead are to be determined under Rule 23(g). *See infra* at Section IV for that discussion.

II. RULE 23(b)(3) FINDINGS & CONCLUSIONS

Having determined that the Plaintiffs have satisfied Rule 23(a)'s requirements, the Court now turns Rule 23(b)(3) which requires a finding that common questions "predominate over any questions affecting only individual members, and that a class action is superior to other available methods for fairly and efficiently adjudicating the controversy." Fed. R. Civ. P. 23(b)(3). "The Rule 23(b)(3) predominance inquiry tests whether proposed classes are sufficiently cohesive to warrant adjudication by representation." Amchem, 521 Although the predominance inquiry of Rule 23(b)(3) is similar to the U.S. at 623. commonality requirement of Rule 23(a), the Fourth Circuit has held that the predominance requirement is "more stringent" than the Rule 23(a) requirement. Thorn, 445 F.3d at 319 (quoting Leinhart v. Dryvit Sys., Inc., 255 F.3d 138, 147 n.4 (4th Cir. 2001)); see also Amchem, 521 U.S. at 624 (the Rule 23(b)(3) criterion is "far more demanding" than the commonality requirement). In determining whether the Plaintiffs have satisfied their burden, this Court must conduct a "rigorous analysis" of the Rule 23(b)(3) requirements and the Plaintiffs' methodology for proving those requirements, and must act as finder of fact in the face of conflicting expert testimony. In re Hydrogen Peroxide Antitrust Litig., 552 F.3d at 323-24. In order to meet the predominance prong of Rule 23(b)(3), a plaintiff must "demonstrate that the element[s] of [the legal claim] is capable of proof at trial through evidence that is common to the class rather than individual." *Id.* at 311. "Because the nature of the evidence that will suffice to resolve a question determines whether the question is common or individual, a district court must formulate some prediction as to how specific issues will play

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out in order to determine whether common or individual issues predominate in a given case." *Id.* (internal quotations and citations omitted).

With that standard in mind, the Court notes at the outset that, like many courts confronting class certification motions involving horizontal price-fixing claims, it is presented with a battle of the experts with regard to the predominance prong of Rule 23(b)(3). Both parties rely heavily on their respective—and diametrically opposed—expert declarations.⁷ Nevertheless, this Court has rigorously analyzed the conflicting testimony, making credibility findings as needed, in order to determine whether Plaintiffs have met their burden on each class certification requirement. See In re Hydrogen Peroxide Antitrust Litig., 552 F.3d at 324. Because much of the conflicting expert testimony is informed by competing factual characterizations regarding the nature of the market for TiO2, this Court will first make the necessary factual findings regarding that market before proceeding on to the substantive requirements of Rule 23(b)(3). See Blades v. Monsanto Co., 400 F.3d 562, 575 (8th Cir. 2005) ("In ruling on class certification, a court may be required to resolve disputes concerning the factual setting of the case. This extends to the resolution of expert disputes concerning the import of evidence concerning the factual setting—such as economic evidence as to business operations or market transactions.").

A. The Titanium Dioxide Market—Findings of Fact

As will be discussed *infra*, in order for this Court to certify a class in this case, it must be satisfied that the Plaintiffs have set forth a plausible methodology for proving class-wide

⁷ At the August 13, 2012 class certification hearing, the parties did not introduce live expert testimony—instead, they introduced excerpts of deposition testimony, and excerpts of the expert declarations.

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impact as a result of the alleged conspiracy. In other words, assuming the alleged conspiracy existed, Plaintiffs still must be able to show that each class member was injured, or "impacted" by that conspiracy through evidence that is common to the class as a whole. Generally speaking, this will require the Plaintiffs to show that the class members paid a higher price for TiO₂ purchased from Defendants than they would have absent the existence of a conspiracy. *See Hanover Shoe v. United Shoe Machinery Corp.*, 392 U.S. 481, 489 (1968) ("when a buyer shows that the price paid by him . . . is illegally high and also shows the amount of the overcharge, he has made out a prima facie case of injury and damage").

Seemingly following the plaintiff-side class certification script⁸ for horizontal price fixing cases, Plaintiffs have introduced an expert declaration that relies, in part, on certain oligopolistic tendencies in the TiO₂ market that Plaintiffs allege facilitate collusion and proves common impact. Specifically, Plaintiffs' Expert, Dr. Russell Lamb, maintains that (1) the multiple nearly simultaneous price increase announcements indicate coordinated pricing; (2) the TiO₂ market is dominated by Defendants; (3) TiO₂ is a commodity-like product that is interchangeable across suppliers; (4) there are many buyers in the market for TiO₂; (5) there are high barriers to entry in the market for TiO₂; (6) demand for TiO₂ was stable or declining during the Class Period; and (7) competition occurs primarily on the basis of price in the TiO₂ market. *See* Report of Dr. Russell Lamb ("Lamb Report") ¶¶ 28-62. These factors undergird Dr. Lamb's conclusion that if a price-fixing conspiracy occurred, that

⁸ For example, Dr. John Beyer, a frequent plaintiffs' expert in class certification cases, has outlined the relevant market factors used to prove common impact in *The Role of Economics in Class Certification and Class-Wide Impact, in* LITIGATING CONSPIRACY: AN ANALYSIS OF COMPETITION CLASS ACTIONS (Stephen Pitel ed. 2006).

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conspiracy would have impacted all members of the class by way of artificially inflated prices for TiO₂.

Following their own script, Defendants argue that certain of these market factors are not present in the market for TiO₂, and as a result, Dr. Lamb's conclusion that common proof of class-wide impact exists is therefore erroneous. Specifically, Defendants' expert, Dr. Michelle Burtis, contends that: (1) Defendants produce hundreds of different TiO₂ products, and therefore TiO₂ cannot be considered a commodity-like product; (2) TiO₂ pricing is highly complex, individualized, and is not the primary basis for competition among Defendants; and (3) class members had the ability to purchase TiO₂ from producers that are not alleged cartel members, thereby necessitating individual inquiry. *See* Report of Dr. Michelle Burtis ("Burtis Report") ¶¶ 14-57.

Each of these TiO₂ market characteristics will be analyzed below.

Price increase announcements indicate coordinated behavior. After analyzing "more than ten years' worth of price increase announcements issued by the Cartel Members," Dr. Lamb concludes that "throughout the Class Period, the Cartel Members announced multiple nearly simultaneous price increases that applied across the board to all users of titanium dioxide, and to all products and grades of titanium dioxide sold by the Cartel Members." Lamb Report ¶ 29. Furthermore, Dr. Lamb concludes that these price increase announcements occurred close-in-time to meetings in which many of the cartel members participated. Accordingly, Dr. Lamb posits that "[w]hile [firms] can certainly announce price increases

⁹ See John H. Johnson & Gregory K. Leonard, Economics and the Rigorous Analysis of Class Certification in Antitrust Cases, 3 J. COMPETITION L. & ECON., 341, 344-345 (2007) (taking issue with the "prototypical plaintiffs" argument and arguing that "the requirement of common proof of antitrust injury should usually present a substantial hurdle for plaintiffs.").

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without coordination, it is hard to explain the same, or nearly the same, price increases being repeatedly announced nearly simultaneously by different firms supposedly acting independently." *Id.* ¶ 28. In support of his conclusions, Dr. Lamb presents a table summarizing the price increase announcements announced by the Defendants in this case. *See id.* at Table 2. Importantly, Dr. Lamb concludes that the price increase announcements "were efforts by the Cartel Members to confirm their cartel behavior and signal to each other and to their customers that price increases would be implemented and enforced market-wide." *Id.* ¶ 29.

In response, Defendants' expert, Dr. Burtis does not take issue with the *existence* of the price increase announcements, but rather, with the *interpretation* of those announcements. Specifically, Dr. Burtis maintains that the price increase announcements by Defendants are not necessarily evidence of collusion. Citing a textbook on industrial organization, Dr. Burtis contends that parallel pricing behavior is a natural consequence of competition in oligopolies, and therefore "it would be expected that a unilateral price increase announcement by one Defendant would influence the decisions of the other Defendants, and that a plausible response would be to announce similar price increases quickly." Burtis Report ¶ 117. Finally, Dr. Burtis argues that even if price increases were *announced* nearly simultaneously, there is no evidence that they were *implemented* in any uniform way. *Id.* ¶ 116.

This Court finds credible Dr. Lamb's conclusions that the Defendants implemented multiple nearly simultaneous price increases throughout the class period, and those price increases can be used to prove coordinated pricing. As noted, Dr. Burtis does not dispute

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that can be drawn from those announcements.

TiO₂ Market Dominance by Defendants.

In Plaintiffs' Consolidated Amended Complaint, they allege that Defendants are the leading suppliers of TiO₂ in the world, and control approximately 70 percent of the global production capacity. CAC ¶ 1. Dr. Lamb, using publicly available documents common to the class as a whole, confirmed this assertion, and concludes "class-wide evidence shows that the Cartel Members controlled the vast majority of sales of titanium dioxide to the Class members during the Class Period in this matter." Lamb Report ¶¶ 30-31. The Defendants' Annual Reports and SEC filings confirm this finding and indicate that the Defendants produce between 70 to 75 percent of the world's supply of TiO₂. *See id.* ¶ 31. Furthermore, Dr. Lamb's analysis concludes that the Cartel Members controlled 98 percent of the North American market for TiO₂ during the Class Period. *Id.* ¶ 34, and Table 4. Dr. Lamb concludes that "[w]hen a small group of firms dominate the market for a product, it makes it easier for them to form a cartel such as the one alleged here." *Id.* ¶ 36.

Dr. Burtis does not directly contradict Dr. Lamb's assertions regarding the market power belonging to the alleged conspirators in this case. Instead, she argues that evidence exists showing that TiO₂ customers had the ability to purchase the product from producers other than the alleged co-conspirators throughout the relevant period. Burtis Report ¶ 57. In this regard, Dr. Burtis argues that the ability to purchase TiO₂ from other producers necessitates individual inquiry into "each putative class member's ability to use TiO₂ products produced 'offshore' and the extent to which they used this ability to negotiate

prices with Defendants. *Id.* However, because Dr. Burtis does not dispute Dr. Lamb's general conclusions that the market for TiO₂ is a highly concentrated one, this Court will take that fact as established, and will address the import of Dr. Burtis' argument in the predominance section *infra*.

TiO₂ as a commodity-like product & competition based primarily on price

According to Dr. Lamb, TiO₂ is a commodity-like product and is interchangeable¹⁰ across suppliers. Lamb Report ¶ 37. This factor has two main implications: first, when a product is characterized as a commodity, competition is based primarily on price and, second, when a product is interchangeable with other similar products produced by competitors, coordination among firms is facilitated because "firms wishing to form a cartel can more easily monitor and detect defections from a price-fixing agreement." *Id.* Dr. Lamb concludes that TiO₂ is a commodity-like product even though each Defendant produces numerous different grades of the product for many different applications. In so concluding, Dr. Lamb relies on the Defendants' SEC filings, market research reports, and internal documents indicating that the different grades of TiO₂ produced by one Defendant were fungible with those produced by other Defendants. *See id.* ¶ 40. According to Dr. Lamb, this factor "makes the Cartel for titanium dioxide far more likely."

Dr. Burtis and Defendants take great issue with Dr. Lamb's conclusion that TiO₂ is a commodity-like product. Dr. Burtis contends that, although the TiO₂ products produced by the Defendants all contain the same chemical, they vary widely in their intended use and

[&]quot;Interchangeability implies that one product is roughly equivalent to another for the use to which it is put; while there may be some degree of preference for one over the other, either would work effectively." *Queen City Pizza, Inc. v. Domino's Pizza, Inc.*, 124 F.3d 430, 437 (3d Cir. 1997) (citation omitted).

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application. Dr. Burtis points to evidence indicating that when TiO₂ purchasers considered changing suppliers, they frequently needed to test the new product to make sure it would work in their production process. Burtis Report ¶ 16. Furthermore, certain TiO₂ purchasers were required to reformulate their production processes to accommodate different TiO₂ products. *Id.* In short, Dr. Burtis has provided substantial evidence indicating that the TiO₂ products produced by the different Defendants were not identical to each other, and that the individual Defendants spent time and money attempting to differentiate their products from those of their competitors.

Notwithstanding this, after reviewing all the evidence, Defendants' contention that titanium dioxide is not a commodity-like product is simply belied by their own characterization of the chemical. For example, in its 2006 Form 10-K,¹¹ Defendant Millennium stated: "[d]ue to the *commodity nature* of certain of [its] products, competition in [the global titanium dioxide market] is based primarily on price . . ." Lamb Report ¶ 38. Similarly, in its 2010 10-K, Defendant Kronos stated that "the majority of our grades and substantially all of our production are considered *commodity* pigments with price and availability being the most significant competitive factors." *Id.* Defendants also produced so-called "crosswalk" documents that note which products offered by competitors are compatible or interchangeable with their own. *See id.* ¶ 40 n. 93 and accompanying text.

Required by the Securities and Exchange Commission, the Form 10-K is a comprehensive annual report summarizing a company's performance and financial condition.

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Accordingly, while there is certainly some differentiation among TiO₂ products produced by the Defendants, the Court credits Dr. Lamb's conclusion that TiO₂ is a commodity-like product and that competition among produces is based primarily on price.¹²

Many buyers in the TiO2 market.

Dr. Lamb concludes that each cartel member maintains a large customer base and that there are numerous purchasers of TiO₂. In this regard, Dr. Lamb asserts that "[w]hen there are many buyers in a market for a particular good, a cartel such as the one alleged here is more likely to be effective." Lamb Report ¶ 44. "This is because the incentive to a cartel member for undercutting the conspiracy is lower when there are many smaller purchasers since each potential sale is small while the risk of disrupting the cartel can carry large penalties." *Id.* Dr. Burtis does not dispute the fact that the buying side of the TiO₂ market is unconcentrated. Accordingly, the Court will take this fact as established.

High barriers to entry.

Next, Dr. Lamb concludes that there are high barriers to entry in the market for TiO₂. Specifically, there is a significant level of capital investment required to build a competitive TiO₂ manufacturing facility—it is estimated that a new plant would require \$250-500 million and three to five years to build. Lamb Report ¶¶ 49-50. Additionally, the current TiO₂ producers hold patents for the proprietary productions processes, which would impose another significant barrier to entry into the market. Defendants and Dr. Burtis do

This conclusion relates only to the commodity-like nature of TiO₂. Defendants' arguments that pricing for TiO₂ is determined by individual negotiations and varied contract terms will be discussed in the predominance section *infra*.

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not dispute the fact that there are high barriers to entry in the TiO₂ market, and this Court will take this fact as established.

Stable or declining demand for titanium dioxide and excess production capacity

Dr. Lamb concludes that demand for TiO₂ experienced a 34.8 percent decline between 2002 and 2009. Lamb Report ¶ 60. Moreover, he concludes that during this period, there was significant excess capacity in the production of the chemical—meaning that TiO₂ producers were producing less of the chemical than their capabilities allowed. *Id.* ¶ 71-74. According to Dr. Lamb, standard economic theory predicts that, in the absence of a cartel, these factors would lead to falling prices for TiO₂ as a result of competition for market share among competitors. *See id.* ¶ 69. However, Dr. Lamb determined that prices for TiO₂ did not fall as economic theory predicts, but instead rose significantly during the Class Period. *Id.* ¶ 70. According to Dr. Lamb, "[t[his combination of stable or falling demand and increasing prices constitutes common proof that the effect of the anticompetitive behavior which forms the heart of this Cartel was to raise prices above those that would have prevailed in the market otherwise." *Id.*

While Dr. Burtis disputes Dr. Lamb's conclusion that these market factors constitute common proof of class-wide impact, she does not directly refute his underlying findings—that demand for TiO₂ declined during the Class Period and that substantial excess capacity existed in the industry. Accordingly, this Court will take those facts as established, and will consider their import below.

B. Predominance

In considering the Rule 23(b)(3) predominance requirement, "a court's rigorous analysis begins with the elements of the underlying cause of action." *In re Rail Freight*, 2012 WL 2870207, at *30. "If proof of the essential elements of the cause of action requires individual treatment, then class certification is unsuitable." *In re Hydrogen Peroxide Antitrust Litig.*, 552 F.3d at 311.

To establish an antitrust violation, a plaintiff must prove three elements: (1) a violation of the antitrust laws—here, Section 1 of the Sherman Act; (2) individual injury resulting from that violation; and (3) measurable damages. See 15 U.S.C. § 1; Deiter v. Microsoft Corp., 436 F.3d 461, 467 (4th Cir. 2006). However, at the class certification stage, Plaintiffs need only show by a preponderance of the evidence that these elements are "capable of proof at trial through evidence that is common to the class rather than individual to its members." In re Hydrogen Peroxide Antitrust Litig., 552 F.3d at 311-12 (emphasis added). Each element is addressed in turn.

i. Violation of Antitrust Law

Plaintiffs allege that Defendants conspired to fix the price of TiO₂. CAC ¶ 2. This type of horizontal price-fixing scheme, if it existed, is a *per se* violation of the Sherman Act. *See Texaco, Inc. v. Dagher*, 547 U.S. 1, 5 (2006). Defendants do not dispute that this element may be proved by common evidence. *See* Defs.' Class Opp'n at 15; *see also* 7AA FEDERAL PRACTICE AND PROCEDURE § 1781 (3d ed. 2005) ("whether a conspiracy exists is a common question that is thought to predominate over the other issues in the case and has the effect of satisfying the first prerequisite in Rule 23(b)(3)"). The question of whether a conspiracy

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to fix the price of TiO₂ existed is a fact capable of common proof because "plaintiffs' allegations of price fixing indisputably will focus on the actions of the defendants, and, as such, proof for these issues will not vary among class members." *In re Rail Freight*, 2012 WL 2870207, at *31 (quotation and citations omitted). Accordingly, this Court finds by a preponderance of the evidence that the element of antitrust injury is capable of proof at trial through evidence that is common to the class.

The Court now turns to the real crux of Defendants' opposition to class certification—that is, whether the Plaintiffs can prove the elements of common impact and damages on a class-wide basis.

ii. Impact

The second element the Plaintiffs will need to establish is that the class members suffered injury from the alleged price-fixing conspiracy. This element, commonly referred to as "impact," can be "likened to the causation element in a negligence cause of action. The term means simply that the antitrust violation caused injury to the antitrust plaintiff." *In re Urethane Antitrust Litig.*, 252 F.R.D. 629, 634 (D. Kan. 2008) (quoting *State of Alabama v. Blue Bird Body Co.*, 573 F.2d 309, 317 (5th Cir. 1978)). Of course, at this stage in the litigation, the

¹¹

This elements involves two distinct questions: "One is the familiar factual question whether the plaintiff has indeed suffered harm, or 'injury-in-fact.' The other is the legal question whether any such injury is 'injury of the type the antitrust laws were intended to prevent and that flows from that which makes defendants' acts unlawful." Cordes & Co. Fin. Servs., Inc. v. A.G. Edwards & Sons, Inc., 502 F.3d 91, 106 (quoting Brunswick Corp. v. Pueblo Bowl-O-Mat, Inc., 429 U.S. 477, 489 (1977)). Because Plaintiffs in this case allege only one injury—that they were subjected to artificially inflated prices for TiO₂ as a result of a price-fixing conspiracy in violation of Section 1 of the Sherman Act—the Defendants do not challenge this element. See Cordes, 502 F.3d at 107 ("Because each class member allegedly suffered the same type of injury, the legal question of whether such an injury is 'of the type the antitrust laws were intended to prevent and that flows from that which makes defendants' acts unlawful, Brunswick, 429 U.S. at 489, is a common one."). Accordingly, the legal question of injury is common to the class, and this Court will focus on the first prong of the impact analysis—whether the class members suffered "injury-in-fact."

Plaintiffs need not *prove* this element, "[i]nstead, the task for plaintiffs at class certification is to demonstrate that the element of antitrust impact is *capable of proof* at trial through evidence that is common to the class rather than individual to its members." *In re Hydrogen Peroxide Antitrust Litig.*, 552 F.3d at 311-12 (emphasis added). In other words, Plaintiffs' burden of showing antitrust impact is "satisfied by its proof of *some damage* flowing from the unlawful conspiracy; inquiry beyond this minimum point goes only to the amount and not the fact of damage. It is enough that the illegality is shown to be a material cause of the injury." *Zenith Radio Corp. v. Hazeltine Research, Inc.*, 395 U.S. 100, 114 n.9 (1969) (emphasis added).

To meet their burden, therefore, Plaintiffs must show, using evidence common to the class, that class members paid a higher price for TiO₂ from Defendants than they would have absent the alleged conspiracy. *See Hanover Shoe*, 392 U.S. 481, 489. In *Blades v. Monsanto Co.*, the Eighth Circuit defined common proof as follows:

The nature of the evidence that will suffice to resolve a question determines whether the question is common or individual. If, to make a prima facie showing on a given question, the members of a proposed class will need to present evidence that varies from member to member, then it is an individual question. If the same evidence will suffice for each member to make a prima facie showing, then it becomes a common question.

400 F.3d at 566 (citations omitted).

As is often the case in horizontal price fixing cases, Plaintiffs here seek to show this element is capable of common proof by comparing a hypothetical "but-for" price—*i.e.*, the price that would have been paid in the absence of the conspiracy—with the prices actually paid by the Plaintiffs during the Class Period. *See In re EPDM Antitrust Litig.*, 256 F.R.D. 82, 88 (D. Conn. 2009). In this kind of but-for comparison, prices are analyzed in a scenario that is "free of the restraints and conduct alleged to be anticompetitive." *In re Rail Freight*,

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2012 WL 2870207, at *41 (quoting *Blades v. Monsanto, Co.*, 400 F.3d at 569. If Plaintiffs can show that they paid a higher actual price than the but-for price using evidence common to the class, they have met their burden on the impact element.

As the Rail Freight court recently summarized, there are various methods by which plaintiffs may prove that common evidence is capable of proving impact:

[O]ne way of showing that common questions predominate on the issue of injury-in-fact

is to show that there is a common method for proving that the class plaintiffs paid higher actual prices than in the but-for world, such as using an economic regression model incorporating a variety of factors to demonstrate that a conspiracy variable was at work during the class period, raising prices above the "but-for" level for all plaintiffs.

In re EPDM Antitrust Litig., 256 F.R.D. at 88. . . .

Comparing but-for prices with actual transaction prices by regression analysis, however, is not the only way for plaintiffs to succeed in a motion for class certification. Other accepted types of evidence for establishing classwide injury-in-fact include: evidence of lock-step increases of national price lists; proof that defendants conspired to maintain an inflated base price from which all negotiations began; and evidence of structural factors that make an industry susceptible to successful collusion. Ultimately, the question is whether plaintiffs have shown by a preponderance of the evidence—through regressions, structural industry factors, or any other persuasive means—that methods of common proof exist to show class-wide impact.

In re Rail Freight, 2012 WL 2870207, at *41 (internal quotations and citations omitted).

Plaintiffs in this case seek to prove impact by way of all the enumerated methods above—they proffer class-wide evidence in the form of: (1) industry characteristics tending to show that the TiO₂ industry was ripe for collusion before the alleged conspiracy; (2) evidence of nearly simultaneous (lock-step) price increase announcements during the relevant period; (3) Defendants' own transactional data showing that prices rose over the

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period; (4) evidence showing that even if the price increase announcements were not "implemented" uniformly, they nevertheless served to set an artificially high base level upon which the Defendants' began negotiations; (5) a multiple regression model designed by Dr. Lamb that attempts to show that, absent the alleged conspiracy, the but-for prices for TiO₂ would have been lower; and (6) a pricing structure analysis that attempts to show that prices for TiO₂ would have responded similarly to coordinated pricing activity.

In arguing that common evidence exists to show impact on a class-wide basis, Plaintiffs rely heavily on the fact that defendants announced multiple nearly simultaneous price increase announcements throughout the class period. Plaintiffs argue that these price increase announcements amount to common proof insofar as they served to raise prices for TiO₂ across the board for all purchasers. Defendants counter that, regardless of the price increase announcements, the evidence shows that price increases were not implemented uniformly, and more importantly, individual TiO₂ transactions between buyers and sellers were the result of extensive negotiations between the parties. This is a valid point, and there certainly is substantial evidence showing that the end prices paid by TiO₂ customers were the product of individual negotiation. See, e.g. Burtis Report ¶¶ 34-56. However, according to the Plaintiffs, these price increase announcements served to set an artificially high baseline for price negotiations, and point to compelling evidence supporting this proposition. See, e.g., Lamb Rebuttal ¶91 nn. 115-16 and accompanying text, ECF No. 306-1.

Having reviewed the submissions and the parties' arguments, this Court concludes that the evidence of the nearly simultaneous price increase announcements, in conjunction with the structural factors present in the TiO₂ industry, *see supra*, makes the element of

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antitrust impact "capable of proof at trial through evidence that is common to the class rather than individual to its members." *In re Hydrogen Peroxide Antitrust Litig.*, 552 F.3d at 311-12. As discussed in *In re Rail Freight*, "this case falls within the line of cases holding that class-wide injury-in-fact can be proven at trial by showing that the allegedly conspiratorial [price increases] were the starting point from which negotiations for discounts began." 2012 WL 2870207, at *62 (collecting cases).

Next, the Plaintiffs argue that class-wide impact can be demonstrated by showing that the prices actually paid by TiO₂ customers were higher than they would have been but-for the conspiracy. To do this, Plaintiffs rely on a multiple regression model created by Dr. Lamb. As described in a reference guide published by the Federal Judicial Center:

Multiple regression analysis is a statistical tool used to understand the relationship between or among two or more variables. Multiple regression involves a variable to be explained—called the dependent variable—and additional explanatory variables that are thought to produce or be associated with changes in the dependent variable. For example, . . . in an antitrust cartel damages case, the plaintiff's expert might utilize multiple regression to evaluate the extent to which the price of a product increased during the period in which the cartel was effective, after accounting for costs and other variables unrelated to the cartel. The defendant's expert might use multiple regression to suggest that the plaintiff's expert had omitted a number of price-determining variables.

DANIEL L. RUBINFELD, REFERENCE GUIDE ON MULTIPLE REGRESSION 305-06 (Fed. Judicial Ctr., 3d ed. 2011).

In his report, Dr. Lamb explains the variables used in his regression analysis to isolate the effect of the cartel on prices for TiO_2 . Lamb Report ¶¶ 75-95. He concludes that, as a result of the cartel, prices for TiO_2 were more than seven percent higher during the Class

Period. *Id.* ¶ 94. (Defendants attack Dr. Lamb's regression model on numerous grounds) which will not be discussed in detail here. That is because:

The real question before this court is whether the plaintiffs have established a workable multiple regression equation, not whether plaintiffs' model actually works, because the issue at class certification is not which expert is the most credible, or the most accurate modeler, but rather have the plaintiffs demonstrated that there is a way to prove a class-wide measure of [impact¹⁴] through generalized proof.

In re EPDM Antitrust Litig., 256 F.R.D. at 100.

In short, this Court finds that Dr. Lamb's regression analysis accurately reflects the characteristics of the titanium dioxide industry, and the facts in this case. While his model may not be perfect, 15 this Court concludes that a regression model is certainly *capable* of proving class-wide impact at trial. In light of the structural factors in the TiO2 industry, this case falls squarely within the type of case that courts have found well-suited to regression analyses. *See, e.g. In re Rail Freight Antitrust Litig.*, 2012 WL 2870207, at *72 (collecting cases). Defendants' quibbles with Dr. Lamb's regression model largely center on the *results* of his analysis—in other words, Defendants argue that if Dr. Lamb included more data, or extended certain dates, his very own regression would show that prices of TiO2 did not increase during the time period. However, by "merely disputing the *results* of the plaintiffs' experts' analysis rather than the feasibility of using a single formula methodology," Defendants raise a "merits issue, not a class certification issue." *In re EPDM Antitrust Litig.*,

 $^{^{14}}$ The EPDM court made this statement in the context of evaluating the damages prong of the predominance inquiry. However, it is equally applicable on the "impact" prong as well.

Dr. Lamb notes that his model is "preliminary, given that discovery is ongoing." He states that he is "highly confident that a model similar to this one will be capable of showing the degree to which prices were artificially inflated as a result of the Cartel and computing aggregate overcharges to the Class as a whole at trial." Lamb Report ¶ 82.

256 F.R.D. at 96. Considering similar arguments, the United States District Court for the Southern District of New York recently stated:

[D]efendants do not assert that plaintiffs have failed to prove some factual predicate necessary for demonstrating causation and artificiality on a classwide basis. Instead, defendants' objections go *solely* to whether plaintiffs' models will *in fact* demonstrate causation and artificiality, and hence, are unrelated to the requirements of class certification. Indeed, by arguing that plaintiffs' models, as corrected by defendants' expert, show that Amaranth did not cause any artificiality during the Class Period, defendants impliedly concede that causation can be evaluated on a class-wide basis.

In re Amaranth Natural Gas Commodities Litig., 269 F.R.D. 366, 385 (S.D.N.Y. 2010). Accordingly, this Court concludes that Dr. Lamb's multiple regression model is "capable" of proving class-wide impact at trial "through evidence that is common to the class rather than individual to its members." In re Hydrogen Peroxide Antitrust Litig., 552 F.3d at 311-12. Defendants will be free to attack the probativeness of that model or its perceived shortcomings as they see fit.

As previously noted, "[b]ecause the nature of the evidence that will suffice to resolve a question determines whether the question is common or individual, a district court must formulate some prediction as to how specific issues will play out in order to determine whether common or individual issues predominate in a given case." Id. (internal quotations and citations omitted, emphasis added). It does not take a crystal ball to predict the way this case will play out at trial—Plaintiffs will overwhelmingly rely on common evidence to prove the existence of a price-fixing conspiracy. Accordingly, "[c]ommon questions predominate where 'even if each Class Member . . . were to bring suit individually, each plaintiff would have to allege and prove virtually identical facts." In re EPDM Antitrust Litig., 256 F.R.D. at

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103 (quoting In re Merrill Lynch & Co. Research Reports Sec. Litig., 246 F.R.D. 156, 165 (S.D.N.Y. 2007).

iii. Damages

The final element Plaintiffs will have to prove at trial is that they suffered "measurable damages." *In re Hydrogen Peroxide Antitrust Litig.*, 552 F.3d at 311. In contrast to the "impact" prong of the Rule 23(b) analysis, which asks only "whether the plaintiffs were harmed," the damages prong asks "by how much." *In re EPDM Antitrust Litig.*, 256 F.R.D. at 88. At the class certification stage, Plaintiffs must show, by a preponderance of the evidence, that they will be able to prove damages using common proof. *In re Rail Freight*, 2012 WL 2870207, at *74.

In this case, Plaintiffs argue that common proof of damages exists in in the form of Dr. Lamb's regression analysis. Dr. Lamb contends that his regression method is "a standard economic method [] that is capable of being used to compute aggregate damages to the class as a whole." Lamb Report ¶ 114. Briefly, he uses his regression analysis to arrive at a seven percent overcharge during the course of the alleged conspiracy (*i.e.*, prices for TiO₂ were seven percent higher than they would have been absent the conspiracy). He then proposes to multiply the total volume of TiO₂ purchases by Class Members during the period by that percentage overcharge to arrive at "the total amount of damages owed to the Class." *Id.* ¶ 116. In other words, Dr. Lamb's regression is only capable of calculating an "aggregate" overcharge that is not capable of distinguishing between individual class members.

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As the well-developed economic literature on cartels, relied on by Plaintiffs for their "impact" argument, makes clear, certain structural factors in an industry make collusion more attractive or more feasible. At the same time, however, that same literature teaches that one cannot assume an illegal price-fixing agreement would damage each class member in the same manner. That is because those very same structural factors that encourage collusion also encourage "cheating" by co-conspirators, thereby rendering individual damage amounts different among the members of a class. This theory, first enunciated by Nobel laureate George Stigler in *A Theory of Oligopoly*, 72 J. Pol. Econ. 44, 46 (1964), is well-established in the antitrust context. *See, e.g.*, RICHARD A. POSNER, ANTITRUST LAW 60-69 (2d ed. 2001). As demonstrated by Stigler, the empirical evidence indicates that even where a horizontal price-fixing agreement has been reached, that agreement will likely result in a range of impacts across the class. 72 J. Pol. Econ. At 46.

The Fourth Circuit has consistently held that "average" or "aggregate" damages are not an appropriate measure of damages in an antitrust case. For example, in *Windham v. Am. Brands, Inc.*, the court stated, "[t]he language that Congress used in [the Antitrust statute] . . . leaves no room for awarding damages to some amorphous 'fluid class' rather than, or in addition, to one or more actually injured persons. It likewise does not permit any person to recover damages sustained not by him, but by someone else who happens to be a member of such class." 565 F.2d 59, 66 (4th Cir. 1977) (quotations and citation omitted). While individual issues do not predominate for the purposes of this Court's "impact" analysis, individual issues certainly overshadow common issues with respect to damages. For example, as the Defendants have clearly shown, some level of individual negotiation took

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place between buyers and sellers of TiO₂ regarding rebates, price, non-price terms, and the like. If a price-fixing conspiracy existed, it is clear that such a conspiracy would necessarily have damaged the individual class members differently.

The need to inquire into individual damage calculations, however, is not an impediment to class certification. As summarized by the Fourth Circuit, a damages inquiry necessarily requires individual proof:

... Rule 23 contains no suggestion that the necessity for individual damage determinations destroys commonality, typicality, or predominance, or otherwise forecloses class certification. In fact, Rule 23 explicitly envisions class actions with such individualized damage determinations. See Fed. R. Civ. P. 23 advisory committee's note (1966 Amendment, subdivision (c)(4)) (noting that Rule 23(c)(4) permits courts to certify a class with respect to particular issues and contemplates possible class adjudication of liability issues with "the members of the class . . . thereafter . . . required to come in individually and prove the amounts of their respective claims."); see also 5 Moore's Federal Practice § 23.23[2] (1997) ("[T]he necessity of making an individualized determination of damages for each class member generally does not defeat commonality.").

Indeed, "[i]n actions for money damages under Rule 23(b)(3), courts usually require individual proof of the amount of damages each member incurred." *Id.* at § 23.46[2][a] (1997) (emphasis added). When such individualized inquiries are necessary, if "common questions predominate over individual questions as to liability, courts generally find the predominance standard of Rule 23(b)(3) to be satisfied." *Id.*

Gunnells v. Healthplan Servs., Inc., 348 F.3d 417, 427-28 (4th Cir. 2003). Given the inherent difficulties in assessing individual damages questions in this type of case, the Court notes that it has several options with which to consider damages at a future date. As discussed by the Second Circuit, there are at least five methods to deal with the individual damages inquiry:

(1) bifurcating liability and damage trials with the same or different juries; (2) appointing a magistrate judge or special master to preside over individual damages proceedings; (3) decertifying the class after the liability trial and providing notice to class members concerning how they may proceed to prove damages; (4) creating subclasses; or (5) altering or amending the class.

In re Visa Check/MasterMoney Antitrust Litig., 280 F.3d 124, 141 (citations omitted). Indeed, the Fourth Circuit in the Gunnells case reiterated its previous admonition to "take full advantage of the provision in [Rule 23(c)(4)] permitting class treatment of separate issues . . . to reduce the range of disputed issues in complex litigation." 348 F.3d at 426 (quoting In re A.H. Robins Co., Inc., 880 F.2d 709, 740 (4th Cir. 1989)).

Accordingly, while there exist numerous individual questions of damages, that is not enough to defeat class certification, and one or more of the above-listed methods may need to be utilized as this case progresses. *See Gunnells*, 348 F.3d at 427 ("class certification 'provides a single proceeding in which to determine the merits of the plaintiffs' claims, and therefore protects *the defendant* from inconsistent adjudications.") (quoting 5 *Moore's Federal Practice* § 23.02 (1999)).

C. Superiority

The final requirement of Rule 23(b)(3) is that this Court must determine that "a class action is superior to other available methods for fairly and efficiently adjudicating the controversy." Fed. R. Civ. P. 23(b)(3). "In deciding whether certification of a class is superior to other trial methods, the Court considers whether the resolution of common issues advances the litigation as a whole, as opposed to leaving a large number of issues for case-by-case adjudication." *In re Polyester Staple Antitrust Litig.*, 2007 WL 2111380, at *31 (W.D.N.C. July 19, 2007) (internal quotation and citation omitted). Here, the Defendants

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have not specifically argued that the superiority prong has not been met, and this Court concludes that because common issues predominate, class action treatment is superior to other available methods of adjudicating the Plaintiffs' claims. In short, class treatment will "achieve economies of time, effort, and expense, and promote . . . uniformity of decision as to persons similarly situated, without sacrificing procedural fairness or bringing about undesirable results." *Amchem*, 521 U.S. at 615.

III. ADDITIONAL ISSUES

Rule 23(c)(1)(C) of the Federal Rules of Civil Procedure provides simply that "[a]n order that grants or denies class certification may be altered or amended before final judgment." Fed. R. Civ. P. 23(c)(1)(C). This Court has previously stated that "[a] district court has 'broad discretion in determining whether the action may be maintained as a class action,' . . . and so long as the court considers the proper criteria, it is permitted to exercise such discretion." Doe v. Lally, 467 F. Supp. 1339, 1345 (D. Md. 1979) (citations omitted). As this court previously held, "[a] federal district court possesses the same broad discretion in determining whether to modify or even decertify a class." Wu v. MAMSI Life & Health Ins. Co., 256 F.R.D. 158, 162 (D. Md. 2008) (citing Gen. Tel. Co. of the Sw. v. Falcon, 457 U.S. 147, 160 (1982)). In fact, a federal district court judge has an affirmative obligation to ensure that the class membership remains at all times consistent with the underlying facts and procedural posture of the case. See Richardson v. Byrd, 709 F.2d 1016, 1019 (5th Cir. 1983) ("Under Rule 23 . . . the district judge must define, redefine, subclass, and decertify as appropriate in response to the progression of the case from assertion to facts."); Chisolm v. TranSouth Fin. Corp. 194 F.R.D. 538, 544 (E.D. Va. 2000) ("[T]he Court is duty bound to

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monitor its class decision and, where certification proves improvident, to decertify, subclassify, alter, or otherwise amend its class certification.").

Here, in opposing class certification, the Defendants have raised several additional issues that do not fit neatly into the previously discussed Rule 23 categories. For example, Defendants claim that many members of the putative class entered into contracts with Defendants that contain mandatory arbitration provisions, forum-selection clauses, and jury waiver provisions. Neither party briefed these issues extensively, and they were only briefly addressed at the August 13 class certification hearing. Because it is unclear to what extent the putative class members have this type of contractual provision, and to what extent the Defendants will seek to uphold those agreements, this Court concludes that "the possible arbitration [or other contractual bar] of some class members does not, by itself, defeat class certification." *In re Rail Freight Antitrust Litig.*, 2012 WL 2870207, at *28 (internal quotation and citation omitted).

Accordingly, to the extent certain putative class members' contracts render them atypical of the class as a whole, this Court will exercise its discretion to amend its class certification Order as necessary.

IV. RULE 23(g)—APPOINTING CLASS COUNSEL

Pursuant to the 2003 amendments to Rule 23, the qualifications and experience of Plaintiffs' counsel are now considered under Rule 23(g). Rule 23(g)(1) provides that "a court that certifies a class must appoint class counsel." Fed. R. Civ. P. 23(g)(1). In appointing class counsel, a court must consider:

(i) the work counsel has done in identifying or investigating potential claims in the action;

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- (ii) counsel's experience in handling class actions, other complex litigation, and the types of claims asserted in the action;
- (iii) counsel's knowledge of the applicable law; and
- (iv) the resources that counsel will commit to representing the class[.]

Id. This Court has already appointed the following interim co-lead class counsel: Gold Bennett Cera & Sidener LLP; Leiff, Cabraser, Heimann & Bernstein LLP; and the Joseph Saveri Law Firm. See Amended Case Mgmt. Order, ECF No. 326. Those law firms, with the addition of Eric L. Cramer of Berger & Montague, P.C. and Linda Nussbaum of Grant & Eisenhofer, P.A. have been appointed members of the Plaintiffs' Executive Committee. See Case Mgmt. Order, ECF No. 106. Finally, Paul Mark Sandler of Shapiro Sher Guinot & Sandler has been appointed Liaison Counsel. See id. As noted by the Plaintiffs:

Since their initial appointment, the above-listed firms . . . have devoted substantial time and resources to this case, including complex legal matters on a variety of motions, case management, discovery planning, and extensive meetings and conferrals with Defendants regarding ongoing discovery. Moreover, proposed Class Counsel have demonstrated their extensive experience and expertise prosecuting antitrust, class action, and complex civil litigation cases and have successfully litigated antitrust class actions and other similar cases in courts throughout the United States.

Pls. Class Mem. at 41-42.

Defendants do not object or disagree with the Plaintiffs' characterization of their representation. This Court has reviewed the Rule 23(g)(1) requirements, and concludes that Plaintiffs' proposed co-lead counsel are well qualified to represent the class in this case. Accordingly, those counsel listed above will be appointed class counsel.

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CONCLUSION

For the reasons stated above, this Court finds by a preponderance of the evidence

that the Plaintiffs have established each necessary element of Rule 23 of the Federal Rules of

Accordingly, Plaintiffs' Motion for Class Certification and for Civil Procedure.

Appointment of Class Counsel (ECF No. 246) will be GRANTED.

Dated: August 28, 2012

A separate Order follows.

Richard D. Bennett United States District Judge

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